

State of Iowa

1928

REPORT OF THE

State Highway Commission

FOR THE

Year Ending December 1, 1928

ISSUED BY THE

STATE HIGHWAY COMMISSION

AMES, IOWA

CLIFFORD L. NILES, Chairman

CARL C. RIEPE

H. A. DARTING

H. E. DEAN

T. J. O'DONNELL

State Highway Commissioners

F. R. WHITE, Chief Engineer

Published by
THE STATE OF IOWA
Des Moines

LETTER OF TRANSMITTAL

HONORABLE JOHN HAMMILL, *Governor:*

Pursuant to the provisions of Section 4626, Code of 1927, The Iowa State Highway Commission herewith submits Part I of its Fifteenth Annual Report.

This part of our Annual Report consists of two chapters.

Chapter One is a summary of the principal operations of the Commission incident to the construction and maintenance of primary roads and general supervision of secondary road work for the fiscal year beginning December 1, 1927, and ending November 30, 1928.

Chapter Two is a detailed financial statement showing receipts and expenditures from the Commission's support fund for the fiscal year July 1, 1927 to June 30, 1928. Also a statement of the receipts and expenditures in the primary road funds for the fiscal year December 1, 1927 to November 30, 1928.

Part II of this report will contain a summary of the annual reports of the county engineers for the calendar year beginning January 1, 1928 and ending December 31, 1928, and will be prepared and submitted during the month of February, as the law provides.

Respectfully submitted,

CLIFFORD L. NILES, *Chairman*

CARL C. RIEPE

H. A. DARTING

H. E. DEAN

T. J. O'DONNELL

Commissioners.

January 7, 1929.

PART I CHAPTER ONE

Summary

Construction Work Accomplished.

The following amounts of the various classes of road and bridge work on the primary road system were completed during 1928:

Paving	740.4 Miles
Graveling	249.8 Miles
Grading	401.4 Miles
Tile Drains	40,167 Lin. Ft.
Guard Rail	135,438 Lin. Ft.
Bridges and Culverts	1.802
(Refer to Schedule A for statement of construction work by counties.)	

A comparison of the construction work accomplished each year for the past five years, follows:

Year	Paving Miles	Graveling Miles	Grading Miles	Tile Drain Lin. Feet	Bridges and Culverts
1924.....	95.5	334.8	459.7	1,088,700	800
1925.....	72.0	280.0	330.3	435,300	900
1926.....	91.1	407.6	496.1	129,573	1,357
1927.....	320.5	450.7	734.6	118,619	1,843
1928.....	740.4	249.8	401.4	40,167	1,802

On December 1, 1928, the following uncompleted work was under contract:

Paving	262.7 Miles
Graveling	94.3 Miles
Grading	335.5 Miles
Tiling	4,908 Lin. Ft.
Bridges and Culverts	355

This work will be carried over into the 1929 construction season.

Expenditures for Construction.

The expenditures for construction work paid for from primary road funds during 1928 were \$30,308,543.68, as follows:

	Primary Roads	Secondary Roads
Grading	\$ 4,820,134.35	\$ 193,764.57
Graveling	1,049,331.40	159,710.91
Paving	17,213,746.67	
Drainage	32,068.96	8,461.19

Bridges and Culverts.....	3,079,755.26	.....
Guard Rail	63,742.19	.....
Right of Way.....	1,227,491.75	.....
Material, Machinery and Equipment	11,861.69	.....
Engineering, Inspection and Administration	1,648,711.33	.....
Right-of-Way, Bridge and Cul- vert Refunds	799,763.41	.....
	<u>\$29,946,607.01</u>	<u>\$ 361,936.67</u>

(Refer to Schedule No. 7 for statement of construction expenditures by counties.)

The following is a comparison of the construction expenditure from the primary road funds for each year since the primary road law was enacted:

	Primary Road System	Secondary Road System
1919	\$ 741,313.73	.....
1920	4,906,404.96	.....
1921	15,500,523.64	.....
1922	13,324,555.14	.....
1923	12,662,680.79	\$ 1,055.74
1924	10,479,315.42	247,618.69
1925	6,889,023.72	500,053.73
1926	8,402,786.44	585,916.01
1927	16,341,641.76	722,303.35
1928	29,946,607.01	361,936.67
Total	<u>\$119,194,852.61</u>	<u>\$ 2,418,884.19</u>

Condition of Primary Road System.

On December 1, 1928, the condition of the primary road system was as follows:

Paved	1,624.5 Miles
Graveled	3,221.3 Miles
Built to finished grade but not surfaced.....	1,114.3 Miles
Not built to finished grade.....	801.0 Miles

Total

(Refer to Schedule No. 13 Part I for condition in each county.)

Roads Completed Across State.

We now have five roads surfaced entirely across the state east and west. These are Road No. 9 from Lansing through Osage, Spirit Lake and Rock Rapids to the South Dakota line northwest of Larchwood, U. S. Road No. 18 from McGregor through Mason City and Spencer to the South Dakota line west of Doon, Roads No. 13 and 10 from McGregor through Strawberry Point and Humboldt to Hawarden, U. S. Road No. 20 from Dubuque through Waterloo and Ft. Dodge to Sioux City, and U. S. Road No. 30 (The Lincoln Highway) from Clinton through Cedar Rapids and Carroll to Council Bluffs.

Contracts are now under way which will complete the surfacing of a road north and south across the state, following Numbers 4, U. S. 34, and U. S. 75 from Hamburg, near the Missouri state line, through Council Bluffs, Sioux City and Rock Rapids to the Minnesota state line. The surfacing of Roads Number U. S. 65 and U. S. 69 (The Jefferson Highway) from the Minnesota line through Mason City, Des Moines and Leon to the Missouri line will probably be completed in 1929. It is now possible to travel from the State Capitol in Des Moines to the county seats of eighty-five of the ninety-nine counties and be on a surfaced road all the way.

Expenditures for Maintenance.

The expenditures incident to the maintenance of the primary road system and extensions of primary roads in cities and towns, from November 30, 1927 to December 1, 1928, were \$3,809,954.81. The following is a comparison of the expenditure for maintenance for each of the past five years:

1924	\$2,722,076.89
1925	3,021,003.93
1926	3,100,675.07
1927	3,743,210.10
1928	<u>3,809,954.81</u>

This expenditure for 1928 is divided as follows:

Maintenance of primary roads outside cities and towns	\$ 3,383,795.13
Maintenance of extensions of primary roads in cities and towns.....	215,557.00
Aid given to cities for maintenance done by cities on primary road extensions.....	26,322.68
Real estate and buildings for use of main- tenance forces and equipment.....	<u>184,280.00</u>
Total	<u>\$ 3,809,954.81</u>

(Refer to Schedules No. 13 and 14, Part I, for statement of the maintenance expenditures in each county.)

Maintenance of Primary Road Extensions in Cities and Towns.

In addition to maintaining the primary roads outside of cities and towns, the Commission in 1928 (pursuant to Section 4755-b29 of the Code, 1927) maintained 403.9 miles of primary road extensions within cities and towns. The condition of these extensions was as follows:

Earth	97.6 Miles
Gravel	201.2 Miles
Pavement	<u>101.5 Miles</u>

Total

403.9 Miles
For the maintenance of this mileage of primary road extensions in cities and towns, the Commission spent \$215,557.00. Also, pur-

suant to said section of the Code, the Commission gave aid in the sum of \$26,322.68 to cities for the maintenance of 381.49 additional miles of primary road extensions within such municipalities. This aid was for the five-month period July 4, 1927, to November 30, 1927. This aid to cities and towns for maintenance work done by them on primary road extensions will amount to about \$70,000.00 per year.

Average Cost of Maintenance.

During 1928 a total of 7,165 miles of road was maintained out of the primary road fund. In addition to roads outside of cities and towns, this mileage includes the extensions of primary roads within cities and towns, which were maintained by the Commission.

The total expenditure for maintenance work done by the State on primary roads and primary road extensions in cities and towns (\$3,599,352.13) was at the average rate of \$502.40 per mile, without regard to the type of road. The average cost per mile for maintaining the different types of road was as follows:

Pavement	\$279.00 per mile
Gravel	588.00 per mile
Earth	466.00 per mile

It costs about \$175.00 per mile per year to cut the weeds, remove the snow, maintain the earth shoulders and guardrail, repair the bridges and culverts, and for all other items of maintenance except the maintenance of the roadway surface. Deducting this amount from the above average maintenance cost per mile, leaves the following amounts as the average cost per mile per year for maintaining the roadway surface of the various types of road:

Pavement	\$104.00
Gravel	416.00
Earth	289.00

Maintenance Buildings.

We now have completed or under construction sixty-six maintenance garages and ten maintenances superintendents' office buildings located in fifty-four counties. These garages cost about \$4,500.00 each. The office buildings cost about \$2,500.00 each.

Cost of Engineering, Inspection and Administration.

During 1928 the expenditures of the Commission out of the primary road funds or on account of primary roads, were as follows:

Construction Work,	
On Primary Roads	\$28,297,895.68
On Secondary Roads	361,936.67
Maintenance of Primary Roads and Extensions	3,809,954.81
Engineering, Inspection and Administration	1,774,028.74

Paid from Primary Road Fund	\$1,644,891.12
Paid from Support Fund	125,317.41
Paid from City Funds	3,820.21

Total \$34,243,815.90

The expenditure for engineering, inspection and administration during the year 1928 amounts to 5.18 per cent of the total expenditure. This expenditure for engineering, inspection and administration is classified as follows:

	Amount	Percentage of Total Expenditure
Engineering	\$ 543,662.43	1.59 %
Inspection	946,712.94	2.76 %
Administration	283,653.37	0.83 %
Total	\$1,774,028.74	5.18 %

Since the first law was enacted (in 1917) accepting Federal aid, \$147,588,619.16 has been expended on the primary road system under the Commission's supervision. This expenditure is classified as follows:

Construction (Not including engineering)	\$114,379,983.92
Maintenance	24,860,926.73
Engineering, Inspection and Administration	8,347,708.51
Total	\$147,588,619.16

The expenditure for engineering, inspection and administration amounts to five and sixty-five one-hundredths per cent of the total expenditure. This expenditure includes every item of engineering and overhead expense of every nature incurred by the Commission in connection with work on the primary roads.

Payments Made by Government.

Prior to December 1, 1927, the Government had paid \$18,198,021.86 to the state in aid of road work. During 1928 the Government paid to the state \$2,831,580.33. The total payments by the government to December 1, 1928, amount to \$21,029,602.19. Of the total amount of federal aid allotted to the state prior to December 1, 1928, (\$23,565,853.00) \$2,536,250.81 is still in the hands of the federal treasurer at Washington. In addition to this sum, Iowa's allotment of federal aid authorized by Congress in a bill passed in May, 1928, will be about \$4,070,000.00, making a total of approximately \$6,606,250.00 coming to this state under existing federal laws.

Tests of Materials.

In connection with the construction work carried on during 1928, tests and inspections have been made of 91,167 samples of material.

The amounts of the various materials represented by these samples are as follows:

Sand, gravel and stone.....	3,719,586 Tons
Cement	3,771,621 Bbl.
Steel	21,259 Tons
Paint	106,848 Gal.
Tile	241,705 Lin. Ft.
Bituminous Material	154,685 Gal.
Guardrail Posts	39.5 Car Loads
Guardrail Cable	127,084 Lin. Ft.

Bridge and Culvert Plans Prepared.

Plans have been prepared for 2,112 bridges and culverts, estimated to cost \$3,184,413.00. Plans have been checked and approved for 223 bridges and culverts estimated to cost \$965,583.00. A comparison of this work during the past five years follows:

Year	Plans Prepared		Plans Approved		Shop Drawings Approved
	No.	Estimated Cost	No.	Estimated Cost	
1924.....	1,014	\$ 2,169,234	261	\$ 650,000	115
1925.....	1,083	2,187,814	254	751,000	114
1926.....	1,333	2,638,000	237	942,642	128
1927.....	2,128	4,214,240	226	725,430	157
1928.....	2,112	3,184,413	223	965,583	141

Road Surveys and Plans.

During 1928 1,326.5 miles of surveys were made for the improvement of primary roads. Plans were prepared for 1,595.3 miles of the primary road system, and plans prepared by the county engineers for 38.8 miles of secondary road were checked and approved.

A comparison of the mileage of surveys and plans for the past five years, follows:

Year	Primary Roads		Secondary Road Plans Checked and Approved
	Surveys	Plans	
1924.....	314 Miles	585 Miles	330 Miles
1925.....	321 "	544 "	208 "
1926.....	349 "	753 "	304 "
1927.....	898 "	1,134 "	206 "
1928.....	1,326.5 "	1,595.3 "	38.8 "

Road and Bridge Lettings Held.

During the period covered by this report, the Commission has held twenty-three public lettings at which contracts were awarded for road and bridge work costing \$23,082,103.47. The contracts let at these lettings covered the following work:

Paving, 667.86 Miles.....	\$17,145,320.60
Grading, 399.08 Miles.....	768,487.38
Graveling, 275.08 Miles.....	2,585,442.63
Bridges and Culverts.....	2,582,852.86
Total	\$23,082,103.47

Cost of Paving.

During the past year, contracts have been let for 667.86 miles of paving. The average price per square yard for this paving has been \$2.13. The total contract price of this pavement, including grading incident to paving, building earth shoulders, and all other incidentals except engineering and inspection, is \$25,672.03 per mile. This pavement is practically all eighteen feet in width. It is seven inches thick at the center and ten inches thick at the edge. The above cost does not include the rough grading required in the building of the road to grade, nor does it include the cost of right of way or bridges and culverts.

Bridge and Bond Contracts Approved.

One thousand two hundred thirty-three bridge, road and material contracts, for work costing \$27,091,910.17 were checked for approval, as follows:

	No. of Contracts	Amount of Contracts
Bridge and culvert work.....	319	\$ 5,644,418.19
Bridge and culvert material.....	22	108,858.75
Primary road work.....	314	20,490,250.61
Primary road work in cities and towns.....	7	129,023.85
Primary road maintenance work.....	400	1,308,737.37
Secondary road projects involving primary road funds.....	37	179,560.33
Secondary road districts.....	21	157,821.06
County road work.....	103	1,164,240.21
Totals.....	1,233	\$ 27,091,910.17

Two of the above contracts, for work costing \$13,983.25 were disapproved. The remainder were approved. A comparison of the contracts checked for approval for the past five years, follows:

Year	Bridge and Culvert Contracts		No. of Mtl. Contracts	Primary Road Contracts		Secondary Road Contracts	
	No.	Amount		No.	Amount	No.	Amount
1924.....	246	\$ 2,768,169	34	278	\$ 4,418,030	129	\$ 625,488
1925.....	305	3,302,841	46	392	4,533,094	208	1,378,978
1926.....	297	3,079,808	43	665	10,122,575	258	1,819,500
1927.....	365	4,732,777	34	597	18,611,000	340	2,832,923
1928.....	319	3,644,418	22	721	21,837,012	171	1,501,622

County Primary Road Bonds Outstanding.

On December 1, 1928, there were \$43,116,500 of primary road bonds outstanding. These bonds had been issued by sixty counties.

County Primary Road Bonds Voted.

Since the last report, five counties have voted bonds aggregating \$2,850,000 for primary road improvements, as follows:

County	Amount of Bonds Voted
Adair	\$ 800,000
Decatur	500,000
Howard	750,000
Wayne	800,000
Total	\$2,850,000

Since 1919, when the primary road law was first enacted, a total of sixty-one counties have authorized the issuance of \$66,535,657 of primary road bonds.

Railroad Crossing Elimination.

During 1928 the net accomplishment in railroad grade crossing eliminations on the primary road system was as follows:

Net increase in overheads on primary road system.....	6
Net increase in subways on primary road system.....	7
Net reduction of grade crossings on primary road system.....	15

When the primary road system was adopted in 1919 it contained 6,400 miles. At that time the primary road system and extensions of primary roads within towns and cities of the second class, contained the following crossings:

Grade crossings	1,063
Overhead crossings	24
Undergraduate crossings	38

Total 1,125

Since 1919 the primary road system has increased in mileage until on December 1, 1928 it included 6,761 miles. At this time the primary road system and extension of primary roads within towns and cities of the second class include the following railroad crossings:

Grade crossings	697
Overhead crossings	76
Undergrade crossings	94

Total 867

It will thus be noted that although the primary road system has increased 361 miles since 1919, the total number of grade crossings on the primary system and extensions of primary roads within towns and cities of the second class, has decreased from

1,063 in 1919 to 697 at the present time, a net decrease of 366, or 34 per cent.

Modification of Primary Road System.

Changes and modifications made in the primary road system have resulted in a net increase of ninety-six miles in the primary road system. The total mileage of said system is now 6,761 miles.

Modification of County Road System.

Modifications were made in the county road system in fifty-one counties, resulting in a net increase in the county road system, of 393 miles.

Publications.

During the period covered by this report, the following publications were issued by the Commission:

- 3 issues of the regular Service Bulletin,
- 52 issues of the Weekly Road and Bridge Letting Bulletin,
- 32 issues of the Weekly Primary Road Condition Map,
- 2 issues of the Annual Road Condition Map,
- Pamphlet containing text of state road bond act,
- Bulletin explaining state road bond act,
- Standard Road Specifications,
- Standard Bridge Specifications,
- Road condition map service to thirty-five daily and weekly newspapers,
- Field Manual.

Meetings of Commission.

Twenty-six formal meetings of the Commission were held during the past year. Each of these meetings were two-day sessions.

Organization of Commission.

On December 1, 1928, there were seven hundred seventy-three people on the Commission's force, exclusive of the Commissioners and temporary and part-time help. Of the above, four hundred fifty were on December first engaged in field construction work, and fifty-eight were engaged in maintenance work. An outline of the organization of the Commission, showing department heads and district engineers, follows:

Commissioners:

Clifford L. Niles, Chairman.....	Anamosa
Carl C. Riepe.....	Burlington
H. E. Dean.....	Ocheyedan
H. A. Darting.....	Glenwood
T. J. O'Donnell.....	Dubuque

Executive Department:

F. R. White, Chief Engineer.....	Ames
May Vander Linden, Secretary.....	Ames

Construction Department:

F. H. Mann, Assistant Chief Engineer.....Ames
H. K. Davis, General Inspector.....Ames
H. O. Hickok, Right-of-Way Engineer.....Ames

Administration Department:

C. Coykendall, Administration Engineer.....Ames
M. L. Hutton, Assistant Engineer.....Ames

Department of Design:

W. E. Jones, Engineer of Design.....Ames
E. W. Blumenschein, Engineer of Bridge Design.....Ames
E. R. Meredith, Engineer of Road Design.....Ames

Maintenance Department:

W. H. Root, Maintenance Engineer.....Ames
T. R. Perry, Assistant Maintenance Engineer.....Ames
L. L. Clement, Maintenance Field Engineer.....Ames

Department of Materials and Tests:

Bert Myers, Engineer of Materials and Tests.....Ames
A. E. Stoddard, Assistant Engineer.....Ames

Department of Purchases and Accounts:

C. R. Jones, Auditor.....Ames
E. T. Burk, Chief Clerk.....Ames
L. B. Anderson, Maintenance Auditor.....Ames

District Number 1:

W. F. Beard, District Engineer.....Ames
C. L. Gleason, Assistant District Engineer.....Ames

District Number 2:

Raymond Zack, District Engineer.....Mason City
F. K. Preston, Assistant District Engineer.....Mason City
H. J. Kassel, Assistant District Engineer.....Mason City

District Number 3:

E. W. Dunn, District Engineer.....Sioux City
E. Capel, Assistant District Engineer.....Sioux City
G. S. Huxtable, Assistant District Engineer.....Sioux City

District Number 4:

L. M. Martin, District Engineer.....Council Bluffs
J. G. Butter, Assistant District Engineer.....Council Bluffs
B. J. Conlon, Assistant District Engineer.....Council Bluffs

District Number 5:

J. S. Morrison, District Engineer.....Ottumwa
W. J. Smith, Assistant District Engineer.....Ottumwa
R. C. Boyd, Assistant District Engineer.....Ottumwa

District Number 6:

W. M. Lee, District Engineer.....Cedar Rapids
C. R. Livingston, Assistant District Engineer.....Cedar Rapids
P. W. Shive, Assistant District Engineer.....Cedar Rapids

District Number 7:

J. A. Paulsen, District Engineer.....Waterloo
I. E. Goodrich, Assistant District Engineer.....Waterloo
S. A. Schackle, Assistant District Engineer.....Waterloo

District Number 8:

A. A. Baustian, District Engineer.....Storm Lake
R. L. Hufford, Assistant District Engineer.....Storm Lake

District Number 9:

W. O. Price, District Engineer.....Chariton
V. G. Gould, Assistant District Engineer.....Chariton
E. A. Zack, Assistant District Engineer.....Chariton

SCHEDULE A

County	Tiling Lin. Ft.	Guardrail Lin. Ft.	Grading Net Miles	Graveling Miles	Paving Miles
Adair					
Adams			8.02	12.23	0.73
Allamakee			5.61		
Appanoose	1,227	18,180	1.80		1.84
Audubon			9.04		1.46
Benton			11.00		
Boone			4.92	7.80	8.19
Bremer			5.07		
Buchanan	4,949		18.95	6.20	21.74
Butler			4.18		8.03
Carroll			0.16		19.47
Cass				14.90	
Cedar	3,200	21,981	11.62		
Cedar-Scott-Muscatine			6.55	7.53	8.95
Cerro Gordo					4.27
Chickasaw			1.27		
Clarke	2,800		1.98		7.02
Cherokee		6,589		1.00	12.15
Clayton	6,416		10.02	5.66	18.50
Clinton			5.14		8.32
Crawford		3,308		7.20	
Dallas		5,920	0.85		
Davis					14.83
Decatur			12.35		15.00
Delaware			12.52	1.83	21.78
Des Moines	969	5,225		2.10	1.39
Dubuque			21.37		21.56
Emmet				1.75	
Fayette	3,376		8.78	12.26	27.11
Floyd	1,300			10.08	
Franklin					19.73
Fremont			0.41		19.64
Greene			0.73	0.50	
Grundy					
Guthrie			5.60	0.96	
Hamilton		5,190	0.19		
Harrison				1.16	17.15
Henry			1.18	0.62	18.25
Howard			0.85		8.00
Ida			3.77		
Iowa			12.14		5.01
Jackson			5.74	13.29	3.18
Jasper		1,250	6.50	7.07	10.13
Jefferson	1,765	12,218		8.00	8.81
Johnson			1.89		0.55
Jones		4,000	1.64	3.25	24.70
Keokuk	5,445		3.73	1.86	15.34
Kossuth					21.65
Lee			8.52		26.98
Linn		1,788		0.50	
Louisa			3.00		
Lucas			1.90	1.30	13.94
Lyon			0.97		
Madison			4.81	5.71	
Mahaska			15.17		2.86
Marion			9.12		
Marshall			0.25		
Mills			6.09		12.31
Mitchell			0.09		
Monona				18.54	18.50
Monroe			0.53	2.65	24.88
Montgomery			6.62		21.09
Muscatine	7,555		18.24	1.57	5.26
O'Brien			6.97	0.63	24.93
Page					23.56
Palo Alto		9,420			18.15
Plymouth			0.95	36.50	23.36
Plymouth-Woodbury			1.25		
Polk			0.31		0.32
Pottawattamie			21.60		7.96
Poweshiek	560		12.79	0.98	16.62
Ringgold			0.96		
Sac		1,745	4.06	4.00	
Scott					0.74

SCHEDULE A—Continued

County	Tiling Lin. Ft.	Guardrail Lin. Ft.	Grading Net Miles	Graveling Miles	Paving Miles
Sioux		7,130		0.20	0.04
Tama	590	2,370	3.52	11.96	
Taylor			8.62		
Union			10.82		
Van Buren					18.11
Wapello		9,626	5.00		11.60
Warren			9.88	1.44	15.23
Washington			4.19	12.10	16.00
Wayne			2.07	7.45	
Winneshiek			6.99		22.04
Woodbury—Ida—Cherokee		19,500		0.44	
Woodbury—Plymouth			0.12		
Woodbury			6.04		12.61
Worth			7.47	2.99	11.58
Wright			6.77	9.74	
Totals	40,167	135,438	401.50	249.81	740.44

CHAPTER TWO

Financial Statement

Period Covered.

The data contained herein constitutes a statement of expenditures from the Commission's Support Fund for the fiscal year July 1, 1927, to June 30, 1928, and also a statement of the expenditures from the Primary Road Funds for the year December 1, 1927, to November 30, 1928.

Classification of Expenditures.

The expenditures of the Commission are classified as follows:

I. From Highway Commission Support Fund for:

- Supervision of county and township highway work.
- Engineering work for other state departments.
- Buildings and grounds.
- Storage and repair of Mechanical Equipment.
- Construction engineering, inspection and administration.

II. From Primary Road Funds for:

- Construction.
- Maintenance.

Supervision of County and Township Road Work.

The total expenditure for supervising county and township road work and purchasing equipment for primary road work for the fiscal year ending June 30, 1928, was \$73,763.72. From this should be deducted \$28,170.56, which was collected as rental on engineering equipment and from miscellaneous sales and refunds which were returned to the Commission's Support Fund, leaving a net cost to the State of \$45,593.16.

Work for Other State Departments.

The expenditure by the Commission for the fiscal year ending June 30, 1928, in the furnishing of engineering assistance to other state departments was \$3,731.86.

Buildings and Grounds.

The expenditure, during the fiscal year ending June 30, 1928, for the improvement of buildings and grounds was as follows:

Laboratory building and fixtures	\$2,046.90
Improvement of grounds	47.98
	<hr/> \$2,094.88

Storage and Repair of Mechanical Equipment.

From July 1, 1927, to December 1, 1927, the expenditures for the storage and repair of mechanical equipment (including trucks, tractors, automobiles, etc.) were paid from the Commission's Support Fund. During that five months' period the expenditure for this item of work amounted to \$76,239.72.

During the same period, there was collected \$75,018.35 from rentals on some of such equipment, from the sale of spare parts and unserviceable equipment, repairs to equipment assigned to counties and for repair of primary road machinery. Therefore, the net cost of this phase of the work was \$1,221.37.

On December 1, 1927, this branch of the work was turned over to the Maintenance Department, and since that time has been financed thru the primary road maintenance funds.

Engineering, Inspection and Administration on Primary Roads Paid for from the Commission's Support Fund.

There was expended by the Commission from its support fund, during the fiscal year ending June 30, 1928, for engineering, inspection and administration work on the primary road system, \$125,317.41.

Construction Work Paid for from Primary Road Funds.

The total expenditure for the construction work paid for from Primary Road Funds from December 1, 1927, to November 30, 1928, was \$30,308,543.68, and was as follows:

	1927	1928
Primary Road Fund.....	\$ 6,953,993.55	\$11,691,931.67
Development Fund	1,250,542.30	.....
Primary Road Bond Fund.....	7,861,584.42	19,136,989.26
Anticipation Certificate Fund.....	535,904.56	6,916.24
Special Assessment Fund.....	217,585.80	*1,381,459.71
County Funds	46,525.03	13,259.73
City Funds	189,076.42	41,143.08
R. O. W. Br. & Culv. Refund Fund	8,733.03	799,763.41
	\$17,063,945.11	\$30,308,543.68

*Minus quantity due to the refunding of Special Assessments.

This expenditure classified according to the kind of work, is as follows:

	1927	1928
Grading	\$ 3,660,091.86	\$ 5,013,898.92
Graveling	1,406,729.97	1,209,042.31
Paving	7,787,637.91	17,213,746.67
Drainage	56,029.69	40,530.15
Guard Rail	89,805.88	63,742.19
Right of Way.....	697,603.79	1,227,491.75
Bridges and Culverts.....	2,606,442.92	3,079,755.26
Material, Machinery & Equipment	959.80*	11,861.69

Engineering, Inspection & Admin.	751,829.86	1,648,711.33
R. O. W. Br. & Culv. Refunds...	8,733.03	799,763.41

\$17,063,945.11 \$30,308,543.68
*Refunds in excess of expenditure.

This expenditure, classified according to Road Systems, is as follows:

	1927	1928
Primary Roads	\$16,341,641.76	\$29,946,607.01
Secondary Roads	722,303.35	361,936.67
Totals	\$17,063,945.11	\$30,308,543.68

Maintenance Work on Primary Roads.

During the year December 1, 1927, to November 30, 1928, there was expended incident to the maintenance of the primary road system a total of \$3,809,954.81.

SCHEDULE NO. 1—SUPPORT FUND**IOWA STATE HIGHWAY COMMISSION****STATEMENT OF RECEIPTS AND DISBURSEMENTS FOR THE YEAR
JULY 1, 1927 TO JUNE 30, 1928**

RECEIPTS:			
Balance July 1, 1927.....			\$283,957.42
Motor Vehicle Fees (2½%).....		\$ 65,240.25	
Instrument Rental	\$ 2,181.00		
Machinery Repairs	75,018.35		
Primary Road Guides.....	127.66		
Miscellaneous Maps	650.20		
Miscellaneous Sales and Refunds.....	19,689.81		
Condition Maps	3,811.56		
Weekly Letting Reports.....	1,710.33	103,188.91	368,429.16
Inter Departmental Transfers.....			7,863.70
Total			\$660,250.28
DISBURSEMENTS:			
Expenditures by Warrants Written			\$281,147.59
Expenditures by Journal Vouchers			7,863.70
Reverted to Primary Road Fund.....			208,173.39
Unexpended Balance July 1, 1928.....		\$163,846.19	
Less Contingent Abstract S-49 in transit.....		780.59	163,065.60
Total			\$660,250.28

ITEMIZED STATEMENT OF DISBURSEMENTS

	Paid from Support Fund July 1, 1927 to June 30, 1928	Paid from Primary Road Fund Dec. 1, 1927 to Nov. 30, 1928
Commissioners:		
Carl C. Riepe, Salary	\$ 1,600.00	
Carl C. Riepe, Expense	830.71	
H. E. Dean, Salary	1,590.00	
H. E. Dean, Expense	1,291.64	
C. L. Niles, Salary	1,275.00	
C. L. Niles, Expense	1,096.68	
H. A. Darting, Salary	1,545.00	
H. A. Darting, Expense	1,045.16	
T. J. O'Donnell, Salary	1,200.00	
T. J. O'Donnell, Expense	755.89	
Departmental Transportation	5,151.91	
Supplies	37.71	
Telephone	16.80	
Stenographers	2,980.64	
Total	\$ 20,417.14	
Executive Department:		
F. R. White, Salary	\$ 7,500.00	
F. R. White, Expense	627.26	

SCHEDULE NO. 1—Continued

	Paid from Support Fund July 1, 1927 to June 30, 1928	Paid from Primary Road Fund Dec. 1, 1927 to Nov. 30, 1928
Consulting Engineer, Salary	1,200.00	
Secretaries and Stenographers, Salary	2,111.02	
Secretaries and Stenographers, Expense	12.90	
Departmental Transportation	602.56	
Supplies	5.46	
Legislative Bridge Investigation, Salary	1,500.00	
Legislative Bridge Investigation, Expense	100.05	
Total	\$ 13,659.25	
Finance Account and Purchase Department:		
C. R. Jones, Salary	\$ 4,075.00	
C. R. Jones, Expenses	216.64	
G. H. Getty, Salary	3,200.00	
G. H. Getty, Expense	14.41	
Stenographers, Salary	1,535.61	
Clerk, Salary	3,274.11	
Departmental Transportation	488.49	
Total	\$ 12,804.26	
Accounting Division:		
E. T. Burk, Salary	\$ 2,958.34	
E. T. Burk, Expense	19.42	
L. B. Anderson, Salary	2,616.67	
L. B. Anderson, Expense	92.49	
Clerks, Salary	16,464.85	
Clerks, Expense	168.74	
Bookkeepers, Salary	6,850.01	
Bookkeepers, Expense	294.12	
Stenographers, Salary	19,974.12	
Departmental Transportation	48.18	
Supplies	2,152.74	
Total	\$ 51,639.68	
Bulletin Division:		
J. W. Elchinger, Salary	\$ 2,800.00	
J. W. Elchinger, Expense	43.30	
Stenographers, Salary	1,093.55	
Departmental Transportation	164.00	
Supplies	102.76	
Postage	93.75	
Total	\$ 4,297.36	
Blue Printing Division:		
Clerks, Salary	\$ 5,409.51	
Supplies	9,001.05	
Total	\$ 14,410.56	
Store Room Division:		
Clerks, Salary	\$ 1,700.00	
Supplies	31,041.55	
Total	\$ 32,741.55	
Administrative Department:		
C. C. Coykendall, Salary	\$ 4,850.00	
C. C. Coykendall, Expense	255.77	
M. L. Hutton, Salary	1,808.33	
M. L. Hutton, Expense	231.62	
Stenographers, Salary	3,394.34	
Departmental Transportation	2,161.25	
Supplies	265.50	
Extra Help, Salary	136.29	
Clerk, Salary	2,000.00	
Clerk, Expense	7.35	
Total	\$ 15,110.45	
State Park Division (Board of Conservation):		
M. L. Hutton, Salary	\$ 1,816.67	
M. L. Hutton, Expense	267.93	
Engineers, Salary	907.18	
Engineers, Expense	356.14	
Instrumentmen, Salary	5.00	
Rodman, etc., Salary	162.67	

FINANCIAL STATEMENT

SCHEDULE NO. 1—Continued

	Paid from Support Fund July 1, 1927 to June 30, 1928	Paid from Primary Road Fund Dec. 1, 1927 to Nov. 30, 1928
Rodman, etc., Expense	43.62	
Departmental Transportation	12.99	
Total	\$ 3,572.20	
Design Department:		
W. E. Jones, Salary	\$ 4,850.00	
W. E. Jones, Expense	483.78	
E. R. Meredith, Salary	3,600.00	
E. R. Meredith, Expense	775.75	
E. W. Blumenschein, Salary	3,725.00	
E. W. Blumenschein, Expense	267.66	
Departmental Transportation, Expense	2,281.88	
Supplies, Expense	182.47	
File Clerk, Salary	1,256.67	
J. H. Ames, Salary	400.00	
J. H. Ames, Expense	17.59	
Total	\$ 17,840.80	
Survey Division:		
Chiefs of Parties, Salary	\$ 20,344.39	
Chiefs of Parties, Expense	8,379.02	
Instrumentmen, Salary	28,194.22	
Instrumentmen, Expense	11,611.89	
Rodman, etc., Salary	36,908.60	
Rodman, etc., Expense	23,982.26	
Departmental Transportation	11,119.65	
Supplies	644.10	
Office Rental	26.11	
Miscellaneous	19.10	
Total	\$ 141,229.34	
Road Plan Division:		
Designers and Draftsmen, Salary	\$ 47,861.65	
Designers and Draftsmen, Expense	240.88	
Departmental Transportation	75.35	
Supplies	1,108.49	
Total	\$ 49,286.37	
Women's Drafting Division:		
Chief Draftsman, Salary	\$ 2,837.49	
Chief Draftsman, Expense	1.48	
Draftswomen and Tracers, Salary	29,688.44	
Supplies	49.10	
Total	\$ 32,576.51	
Construction Department:		
F. H. Mann, Salary	\$ 5,116.67	
F. H. Mann, Expense	560.81	
H. K. Davis, Salary	3,600.00	
H. K. Davis, Expense	517.21	
Resident Engineers, Salary	135,875.14	
Resident Engineers, Expense	15,065.67	
Instrumentmen, Salary	149,912.27	
Instrumentmen, Expense	4,575.79	
Rodman, etc., Salary	176,502.01	
Rodman, etc., Expense	1,222.49	
Inspectors, Salary	196,201.44	
Inspectors, Expense	16,176.02	
Stenographers, Salary	4,260.57	
Departmental Transportation	90,689.09	
Supplies	18,215.34	
Rental of Instruments	32.75	
Const. Furniture and Fixtures	2,084.79	
Rental of Offices	9,937.24	
Inspection and Test by Other States	10,943.00	
Miscellaneous	5,075.61	
Total	\$ 846,563.91	
Right of Way Division:		
H. O. Hickok, Salary	\$ 3,000.00	
H. O. Hickok, Expense	817.67	
W. P. Nichols, Salary	2,958.34	
W. P. Nichols, Expense	767.16	

SCHEDULE NO. 1—Continued

	Paid from Support Fund July 1, 1927 to June 30, 1928	Paid from Primary Road Fund Dec. 1, 1927 to Nov. 30, 1928
Resident Engineers, Salary		11,140.55
Resident Engineers, Expense		2,699.46
Stenographer, Salary		1,301.67
Departmental Transportation		4,215.95
Supplies		134.20
Extra Help, Salary		614.50
Extra Help, Expense		2.80
Total		\$ 28,252.30
Road Maintenance Department:		
W. H. Root, Salary	\$ 4,916.66	
W. H. Root, Expense		552.97
T. R. Perry, Salary		3,600.00
T. R. Perry, Expense		345.12
L. L. Clement, Salary		3,358.33
L. L. Clement, Expense		341.46
Stenographer, Salary		1,060.00
Departmental Transportation		2,313.79
Supplies		10.24
Total		\$ 16,498.57
Traffic Census:		
Labor, Salary	\$ 35.00	
Labor, Expense		17.20
Total		\$ 52.20
Repair Shops Division:		
R. W. Clyde, Salary	\$ 3,200.00	
Clerks, Salary	1,650.00	
Foreman, Salary	1,250.00	
Foreman, Expense	7.10	
Labor, (Watchman, Mechanic), Salary	19,782.49	
Labor, (Watchman, Mechanic), Expense	22.38	
Departmental Transportation	775.58	
Supplies	45,048.02	
New Cars	3,696.00	
Light, Power, Water, Fuel	729.36	
Office Supplies	78.79	
Total	\$ 76,239.72	
Bridge Design Division:		
Designers and Draftsmen, Salary	\$ 50,231.13	
Designers and Draftsmen, Expense		794.94
Supplies		237.07
Inspection for other States		136.00
Total		\$ 51,227.14
Materials and Tests Department:		
R. W. Crum, Salary	\$ 4,496.77	
R. W. Crum, Expense	554.22	
Assistants, Salary	3,950.00	
Assistants, Expense	192.74	
Stenographer, Salary	1,050.00	
Departmental Transportation	5,659.88	
Supplies	708.16	
General Miscellaneous Inspectors, Salary	1,631.67	
General Miscellaneous Inspectors, Expense	36.79	
Total	\$ 18,280.23	
Field Division:		
Inspectors, Salary	\$ 101,872.35	
Inspectors, Expense	23,625.22	
Departmental Transportation	17,276.23	
Supplies	15,027.87	
Laborers, Salary	24.00	
Miscellaneous	207.31	
Total		\$ 158,032.98
Ames Laboratory:		
Mark Morris, Salary	\$ 3,200.00	
Mark Morris, Expense	254.91	
Assistants, Salary	33,043.24	

†Indicates minus amount.

SCHEDULE NO. 1—Continued

	Paid from Support Fund July 1, 1927 to June 30, 1928	Paid from Primary Road Fund Dec. 1, 1927 to Nov. 30, 1928
Assistants, Expense		1,181.04
Departmental Transportation		385.43
Supplies		10,446.21
Total		\$ 48,510.83
Des Moines Laboratory:		
A. F. Faul, Salary		\$ 2,716.67
A. F. Faul, Expense		91.57
Assistants, Salary		19,894.40
Assistants, Expense		548.68
Departmental Transportation		1,092.13
Supplies		2,678.70
Telephone and Telegraph		175.62
Postage		180.24
Office Rental		600.00
Miscellaneous		13,410.31
Total		\$ 24,568.70
Mason City Laboratory:		
Benj. L. Bowling, Salary		\$ 2,900.00
Benj. L. Bowling, Expense		387.54
Assistants, Salary		17,245.01
Assistants, Expense		454.05
Departmental Transportation		832.49
Supplies		2,135.63
Telephone and Telegraph		405.65
Office Rental		780.00
Stenographers, Salary		71.52
Postage		169.24
Miscellaneous		1391.78
Total		\$ 24,989.35
Buffalo Laboratory:		
R. A. Breitengross, Salary		\$ 2,716.67
R. A. Breitengross, Expense		453.20
Assistants, Salary		8,205.30
Assistants, Expense		316.11
Departmental Transportation		891.86
Supplies		1,374.28
Office Rental		240.00
Postage		88.31
Extra Help, Salary		81.95
Telephone and Telegraph		217.50
Miscellaneous		1426.64
Total		\$ 14,158.54
District Office No. 1, Ames, Iowa:		
W. F. Beard, Salary	\$ 3,850.00	
W. F. Beard, Expense	371.95	
Assistant, Salary		\$ 4,185.19
Assistant, Expense		1,316.91
Stenographer, Salary		1,320.00
Departmental Transportation		2,402.43
Supplies (Stationery)		3.36
Postage		70.26
Total	\$ 4,221.95	\$ 9,298.15
District Office No. 2, Mason City, Iowa:		
R. R. Zack, Salary	\$ 3,850.00	
R. R. Zack, Expense	235.23	
Assistant, Salary		\$ 3,583.34
Assistant, Expense		135.54
Stenographer, Salary		2,107.50
Departmental Transportation		2,713.17
Supplies (Stationery)		78.35
Postage		130.96
Office Rental		1,075.00
Telegraph and Telephone		419.45
Office Engineer, Salary		1,225.00
Office Engineer, Expense		94.45
Total	\$ 4,085.23	\$ 11,562.76
District Office No. 3, Sioux City, Iowa:		
E. W. Dunn, Salary	\$ 3,850.00	

†Indicates minus quantity.

IOWA STATE HIGHWAY COMMISSION

SCHEDULE NO. 1—Continued

	Paid from Support Fund July 1, 1927 to June 30, 1928	Paid from Primary Road Fund Dec. 1, 1927 to Nov. 30, 1928
E. W. Dunn, Expense	481.12	
Assistant, Salary		\$ 5,858.33
Assistant, Expense		780.65
Stenographer, Salary		1,488.39
Departmental Transportation		2,781.18
Supplies (Stationery)		81.40
Postage		85.64
Office Rental		600.00
Telegraph and Telephone		301.76
Total	\$ 4,331.12	\$ 11,977.35
District Office No. 4, Atlantic, Iowa:		
L. M. Martin, Salary	\$ 3,850.00	
L. M. Martin, Expense	2,456.53	
Assistant, Salary		\$ 5,874.99
Assistant, Expense		522.08
Stenographer, Salary		1,943.55
Departmental Transportation		2,585.58
Supplies (Stationery)		144.06
Postage		260.06
Office Rental		1,571.00
Telegraph and Telephone		721.89
Extra Help, Salary		198.33
Extra Help, Expense		91.93
Total	\$ 6,306.53	\$ 13,913.47
District Office No. 5, Ottumwa, Iowa:		
J. S. Morrison, Salary	\$ 3,850.00	
J. S. Morrison, Expense	528.48	
Assistant, Salary		\$ 5,975.00
Assistant, Expense		525.02
Stenographer, Salary		1,145.33
Departmental Transportation		3,446.69
Supplies (Stationery)		114.68
Postage		228.20
Office Rental		780.00
Telegraph and Telephone		393.31
Extra Help, Salary		723.85
Total	\$ 4,378.48	\$ 13,332.08
District Office No. 6, Cedar Rapids, Iowa:		
W. M. Lee, Salary	\$ 3,850.00	
W. M. Lee, Expense	424.09	
Assistant, Salary		\$ 6,358.33
Assistant, Expense		538.79
Stenographer, Salary		1,969.44
Departmental Transportation		3,810.66
Supplies (Stationery)		118.26
Postage		161.28
Office Rental		900.00
Telegraph and Telephone		636.00
Miscellaneous		18.00
Total	\$ 4,274.09	\$ 14,510.76
District Office No. 7, Waterloo, Iowa:		
J. A. Paulsen, Salary	\$ 3,850.00	
J. A. Paulsen, Expense	472.39	
Assistant, Salary		\$ 5,658.32
Assistant, Expense		900.56
Stenographer, Salary		1,611.90
Departmental Transportation		3,302.15
Supplies (Stationery)		202.93
Postage		107.96
Office Rental		960.00
Telegraph and Telephone		349.93
Total	\$ 4,322.39	\$ 13,093.75
District Office No. 8, Storm Lake, Iowa:		
A. A. Baustian, Salary	\$ 3,850.00	
A. A. Baustian, Expense	445.66	
Assistant, Salary		\$ 3,100.00
Assistant, Expense		711.32
Stenographer, Salary		1,277.26

FINANCIAL STATEMENT

SCHEDULE NO. 1—Continued

	Paid from Support Fund July 1, 1927 to June 30, 1928	Paid from Primary Road Fund Dec. 1, 1927 to Nov. 30, 1928
Departmental Transportation		
Supplies (Stationery)		2,376.54
Postage		63.27
Office Rental		215.34
Telegraph and Telephone		612.00
Total	\$ 4,295.66	\$ 8,627.81
District Office No. 9, Chariton, Iowa:		
W. O. Price, Salary	\$ 3,850.00	
W. O. Price, Expense	408.06	
Assistant, Salary		\$ 5,958.34
Assistant, Expense		344.24
Stenographer, Salary		1,432.41
Departmental Transportation		2,764.48
Supplies (Stationery)		89.50
Postage		231.28
Office Rental		960.00
Telegraph and Telephone		254.55
Extra Help, Salary		93.60
Miscellaneous, Expense		12.00
Total	\$ 4,258.06	\$ 12,140.90
General Expense:		
Printing and Printing Supplies	\$ 1,445.38	
Weekly Condition Maps	373.94	
Yearly Condition Maps	456.87	
Primary Road Guides	22.50	
Weekly Letting Reports	1,464.02	
Miscellaneous, Etc.	2,292.69	
Monthly Bulletins	1,528.12	
Construction Prop. Forms		\$ 952.58
Photos, Slides and Cuts	226.53	
Office Supplies	1,643.96	
Repairs and Replacement	720.93	
Postage		11,496.35
Express, Freight and Drayage	6,439.73	
Telegraph		452.02
Telephone		3,205.17
State Fair Exhibit	1,710.78	
Office Building Repairs and Expense	116.08	
Office Building Light, Power and Water	2,409.66	
Janitors, Salary	3,556.69	
Lab. Light, Power, Water	905.46	
Heating Plant, Repairs and Expense	337.79	
Heating Plant, L. P., Water	1,813.60	
Heating Plant, Fuel, Expense	643.59	
County Engineers Reports	397.65	
Office Grounds Repairs, Expense	8.00	
Total	\$ 28,513.97	\$ 16,106.12
CAPITAL INVESTMENT		
General Office Division:		
Office Building	\$ 228.25	
Laboratory Building	1,793.90	
Grounds	47.98	
Office Furniture and Fixtures	20,785.05	
Laboratory Furniture and Fixtures	253.00	
Des Moines Laboratory Furniture and Fixtures	124.00	
Total	\$ 23,232.18	
Other State Departments:		
Inspectors, Expense	\$ 5.12	
Resident Engineers, Salary	123.92	
Resident Engineers, Expense	30.62	
Total	\$ 159.66	
Total Disbursements	\$289,011.29	
Inter Departmental Trans.	*7,863.70	
Net Disbursements	\$ 281,147.59	\$ 1,644,891.12
Engineering and Inspection on City Projects Paid from City Funds		3,820.21
Total Engineering, Inspection, Administration		\$ 1,648,711.33

*Charged against other departments and included in department totals.

IOWA STATE HIGHWAY COMMISSION

SCHEDULE NO. 2

STATEMENT PRIMARY ROAD FUND
DECEMBER 1, 1927 TO NOVEMBER 30, 1928

RECEIPTS		\$ 3,253,604.05
Balance December 1, 1927.....	\$ 3,253,604.05	
Auto License Fees.....	9,605,429.70	
Gasoline Tax.....	1,791,000.00	
Federal Aid.....	2,831,580.33	
Highway Commission Support Fund Balance as of December 31, 1927.....	208,173.39	
Auto Department Balance as of December 31, 1927.....	165,498.26	
Miscellaneous.....	2,929.51	

Total Receipts.....	\$14,604,521.19	
Total.....	\$17,858,125.24	

EXPENDITURES

For Construction.....	\$11,691,931.67	
For Maintenance.....	3,809,954.81	
For Bond Redemption and Interest.....	1,496,415.35	
Total Expenditure.....	\$16,998,301.83	
Balance November 30, 1928.....	859,823.41	
Total.....	\$17,858,125.24	

SCHEDULE NO. 3

STATEMENT OF RIGHT OF WAY AND BRIDGE REFUND ACCOUNT
DECEMBER 1, 1927 TO NOVEMBER 30, 1928

RECEIPTS		\$ 1,024,322.60
Balance December 1, 1927.....	\$ 1,024,322.60	
Gasoline Tax.....	2,994,387.19	
Total Receipts.....	2,994,387.19	
Total.....	\$ 4,018,709.79	

EXPENDITURES

Warrants Written.....	\$ 799,763.41	
Total Expenditure.....	\$ 799,763.41	
Balance November 30, 1928.....	3,218,946.38	
Total.....	\$ 4,018,709.79	

SCHEDULE NO. 4

STATEMENT PRIMARY ROAD BOND FUND
DECEMBER 1, 1927 TO NOVEMBER 30, 1928

RECEIPTS		\$ 1,160,863.49
Balance December 1, 1927.....	\$ 1,160,863.49	
Proceeds of Bonds Sold During Period.....	\$20,189,206.01	
Total Receipts.....	20,189,206.01	
Total.....	\$21,350,069.50	

EXPENDITURES

For Construction.....	\$19,136,989.26	
Total Expenditure.....	\$19,136,989.26	
Balance November 30, 1928.....	2,213,080.24	
Total.....	\$21,350,069.50	

FINANCIAL STATEMENT

STATEMENT OF PRIMARY ROAD BOND FUND RECEIPTS AND
EXPENDITURES BY COUNTIES
DECEMBER 1, 1927 TO NOVEMBER 30, 1928

County	Balance December 1, 1927	Receipts During Period	Total	Expenditures During Period	Balance November 30, 1928
Adair.....		\$ 70,073.36	\$ 70,073.36	\$ 46,633.41	\$ 20,439.95
Appanoose.....	\$ 90,143.37	35,211.00	134,354.37	73,550.34	60,804.03
Benton.....	726.86	150,358.22	151,085.08	151,085.08	
Bremer.....	1,822.38	661,217.75	663,040.13	557,502.70	105,537.43
Buchanan.....		302,029.29	302,029.29	302,029.29	
Butler.....	23,802.83	494,099.61	517,902.44	463,125.62	54,776.82
Cedar.....	2,489.64	314,210.09	316,699.73	316,699.73	
Chickasaw.....	30,052.07	182,438.71	212,490.78	195,366.51	17,124.27
Clarke.....		352,213.82	352,213.82	291,139.24	61,074.58
Clayton.....		503,839.52	503,839.52	461,667.84	42,171.68
Clinton.....	45,629.97		45,629.97	45,629.97	
Davis.....		402,151.60	402,151.60	383,419.22	18,732.38
Decatur.....		200,310.00	200,310.00	200,310.00	
Delaware.....		652,296.74	652,296.74	596,053.22	56,243.52
Des Moines.....	2,235.32	100,802.00	103,037.32	103,037.32	
Dubuque.....	87,944.21	795,185.51	883,129.72	647,487.51	235,642.21
Fayette.....		685,185.59	685,185.59	605,032.69	19,252.90
Floyd.....	1,112.07		1,112.07	1,112.07	
Franklin.....	49,335.99	529,165.18	578,501.17	526,961.97	51,539.20
Fremont.....		564,758.44	564,758.44	564,758.44	
Hancock.....	1,812.68	101,035.00	102,847.68	102,847.68	
Harrison.....	255.48	676,746.12	677,001.60	580,031.51	96,970.09
Henry.....		500,647.73	500,647.73	463,600.43	37,047.30
Howard.....		201,068.80	201,068.80	166,196.76	34,872.04
Iowa.....		136,199.16	136,199.16	136,199.16	
Jackson.....		196,165.02	196,165.02	77,190.71	118,974.31
Jasper.....	12,627.28	272,217.04	284,844.32	249,947.09	34,897.23
Jefferson.....	46,638.76	88,418.35	135,057.11	135,057.11	
Johnson.....	28,811.21		28,811.21	28,811.21	
Jones.....		635,418.15	635,418.15	591,085.39	44,332.76
Keokuk.....		368,503.16	368,503.16	360,479.09	8,023.47
Kossuth.....		582,873.44	582,873.44	539,502.83	43,370.61
Lee.....	103,536.16	674,006.20	777,542.36	652,632.36	125,000.00
Linn.....	51,785.26	167,000.00	218,785.26	152,924.53	65,860.73
Lucas.....		358,857.05	358,857.05	340,325.79	18,531.26
Mahaska.....	95,041.19		95,041.19	12,263.98	82,777.21
Marshall.....	28,109.03		28,109.03	28,109.03	
Mills.....		332,106.64	332,106.64	332,106.64	
Monona.....	1,700.94	621,530.56	623,231.50	530,723.08	92,508.42
Monroe.....		402,388.14	402,388.14	402,388.14	
Montgomery.....		607,716.84	607,716.84	581,894.85	25,821.99
Muscatine.....	108,229.34	324,180.10	432,409.44	367,451.53	64,957.91
O'Brien.....	3,725.00	612,022.57	615,747.57	564,789.35	50,958.22
Page.....		668,460.85	668,460.85	596,514.47	71,946.38
Plymouth.....		753,641.70	753,641.70	654,114.03	99,527.67
Polk.....	55,051.18	397,133.00	452,184.18	431,103.51	21,080.67
Pottawattamie.....	*43,400.05	273,453.51	316,853.56	230,063.46	86,790.10
Poweshiek.....	16,487.86	467,892.72	484,380.58	446,033.64	38,346.94
Scott.....	28,769.90		28,769.90	15,586.12	13,183.78
Tama.....	61,818.46	6,694.94	68,513.40	68,513.40	
Van Buren.....		502,612.30	502,612.30	436,662.40	65,949.90
Wapello.....	1,305.03	311,950.13	313,255.16	313,255.16	
Warren.....		448,043.74	448,043.74	393,696.71	54,347.03
Washington.....	83,999.64	331,209.95	415,209.59	360,411.19	54,798.40
Winneshiek.....	104,431.24	432,574.48	537,005.72	529,297.30	7,708.42
Woodbury.....	15,833.19	387,974.03	403,807.22	362,094.92	41,712.30
Worth.....		352,828.16	352,828.16	295,691.03	57,136.23
Totals.....	\$ 1,160,863.49	\$20,189,206.01	\$21,350,069.50	\$19,136,989.26	\$ 2,213,080.24

*Indicates minus amount.

IOWA STATE HIGHWAY COMMISSION

SCHEDULE NO. 5

STATEMENT OF SPECIAL ASSESSMENT FUND
DECEMBER 1, 1927 TO NOVEMBER 30, 1928

RECEIPTS

Balance December 1, 1927.....	\$	587.85
Assessments Levied During Period.....	\$	38,020.68
Refund of Special Assessment Levies.....	\$	1,419,507.85
Total Receipts	\$	1,381,487.17
Total	\$	1,380,899.32

EXPENDITURES

For Construction	\$	38,048.14
Refund of Special Assessment Levies	\$	1,419,507.85
Total Expenditure	\$	1,381,459.71
Balance November 30, 1928.....	\$	560.39
Total	\$	1,380,899.32

†Minus amounts caused by refunding of Assessment levies.

SCHEDULE NO. 6

STATEMENT ANTICIPATION CERTIFICATE FUND
DECEMBER 1, 1927 TO NOVEMBER 30, 1928

RECEIPTS

Balance December 1, 1927.....	\$	6,880.82
Proceeds Certificates Sold During Period.....	\$	35.42
Total Receipts	\$	35.42
Total	\$	6,916.24

EXPENDITURES

For Construction	\$	6,916.24
Total Expenditure	\$	6,916.24
Balance November 30, 1928.....	\$	.00
Total	\$	6,916.24

FINANCIAL STATEMENT

SCHEDULE NO. 7
EXPENDITURES CLASSIFIED BY PURPOSE AND BY FUNDS FOR PERIOD
DECEMBER 1, 1927 TO NOVEMBER 30, 1928

County	Construction	Maintenance	Bond Redemption and Interest	Total	Primary Road	Bond	R. O. W. and Bridge Refund	City	Special Assessment	Antic. Certificate	County
Adair.....	\$ 115,283.53	\$ 29,918.78		\$ 145,202.31	\$ 88,403.91	\$ 49,633.41	\$ 7,164.99				
Adams.....	65,932.25	15,883.17		81,815.42	63,591.37		11,598.42			\$ 6,625.63	
Allamakee.....	101,406.72	29,770.75		131,177.47	127,085.39		4,092.18				
Appanoose.....	265,900.26	27,684.96	\$ 13,950.00	307,535.22	226,214.46	73,550.34	7,770.42				
Audubon.....	183,284.69	29,217.52		212,502.21	206,119.08		6,383.13				
Benton.....	444,465.47	38,157.24	40,124.67	522,747.38	385,895.80	151,085.08	11,700.00	\$ 6,395.45	\$ 32,329.85		
Black Hawk.....	7,450.99	30,657.59	99,451.22	143,559.80	136,070.15		7,450.99		38.00		
Boone.....	226,855.03	52,747.56		279,602.59	276,264.91		3,337.68				
Bremer.....	731,544.04	39,488.82	5,666.00	776,498.86	213,344.70	557,502.70	5,651.40				
Buchanan.....	999,091.45	25,854.18	1,063.00	296,008.63	45,541.02	302,029.29	1,497.72		\$ 53,059.40		
Buena Vista.....	45,462.53	42,138.92		87,601.45	78,162.54		4,438.87		4,969.04		
Butler.....	503,314.06	42,735.98		546,049.29	76,465.96	469,125.62	7,071.54		3,116.18	255.17	
Calhoun.....	35,537.96	54,431.32	867.65	89,836.93	74,338.66		11,454.44				
Carroll.....	59,077.97	48,873.65		107,951.62	101,698.29		5,753.03				
Cass.....	156,353.79	37,030.02		193,383.81	185,301.90	316,600.73	5,655.66			\$ 2,936.25	
Cedar.....	454,392.96	38,790.34	24,014.00	517,196.70	198,196.34		2,300.63				
Cerro Gordo.....	46,583.99	22,850.55	40,335.28	109,829.82	246,446.28		19,108.76		\$ 146,725.22		
Cherokee.....	21,212.76	49,320.87		70,533.63	67,234.60		3,299.03				
Chickasaw.....	239,628.27	30,570.90	3,452.75	273,651.92	67,456.30	195,366.51	10,799.11				
Clarke.....	347,821.88	30,520.97	708.00	378,550.85	74,084.32	291,139.24	12,427.29				
Clay.....	31,961.18	38,164.00		69,525.18	58,678.97		8,633.10		9,050.10		1,796.11
Clayton.....	588,398.61	46,588.04		634,786.65	164,485.71	461,667.84	29,875.11				
Clinton.....	313,697.61	26,002.59	97,000.00	437,200.20	361,695.12	45,629.97	7,744.08				
Crawford.....	32,034.59	41,377.69		73,432.28	65,688.20		16,160.19				
Dallas.....	80,908.56	33,356.53		139,964.88	123,804.69		31,274.63				
Davis.....	430,343.41	26,321.66		446,665.07	31,971.22	388,419.22	6,650.47				
Delaware.....	329,141.58	27,125.62		356,267.20	349,366.73		4,771.35				
Des Moines.....	779,895.94	38,019.90	1,416.00	819,331.84	217,697.97	596,983.22	15,548.11				
Dickinson.....	291,454.73	19,001.76	22,250.00	332,706.49	250,604.26	100,067.32					
Dubuque.....	44,751.11	42,752.82		87,503.93	108,219.72						
Emmet.....	742,585.18	45,585.14	26,624.00	814,594.32	162,658.74	647,487.51		4,448.07			
Fayette.....	30,325.03	42,161.76		62,486.79	57,280.31		4,856.54				65.48
Floyd.....	876,506.24	49,242.96	1,416.00	927,165.20	246,039.26	665,632.69	15,103.35				
Franklin.....	47,271.75	38,073.69	44,381.80	129,727.24	186,855.63	1,112.07	12,220.04				
Fremont.....	602,300.04	24,994.37	20,134.50	647,328.91	118,790.99	526,961.97	1,065.95				
	654,400.58	25,273.73	708.00	680,382.31	107,901.54	564,758.44	10,062.33				

IOWA STATE HIGHWAY COMMISSION

SCHEDULE NO. 7—Continued

County	Construct-	Mainte-	Bond	Total	Primary	Bond	R. O. W.	City	Special	Antle.	County
	tion	nance	Redemption		Road		and		Assessment	Certif-	
			and				Bridge			icate	
			Interest				Refund				
Greene	13,699.65	41,882.63	58,000.00	113,582.28	147,550.36		3,039.55		*37,007.83		
Grundy	34,735.61	39,151.51		73,887.12	68,527.63		5,359.69				
Guthrie	112,805.32	45,315.23		158,210.55	148,088.85		10,121.80				
Hamilton	10,180.12	28,890.92		48,987.04	48,987.04						
Hancock	14,522.33	24,210.23	100,063.00	138,795.56	130,968.97	102,847.68	6,336.51		*103,573.71		2,129.41
Harrison	36,292.69	51,999.74		88,292.43	73,639.00		8,230.95				6,332.48
Hartlin	638,315.80	37,659.94		683,765.74	13,776.93	580,031.51	9,957.30				
Henry	588,565.84	27,901.36		616,467.20	145,039.69	463,690.43	3,771.87	4,055.29			
Howard	234,722.40	41,190.85		275,913.24	96,376.29	166,196.76	13,340.29				
Humboldt	10,259.96	34,977.00		45,236.96	45,236.96						
Ida	77,007.50	31,615.79		108,623.29	101,140.04		7,363.82		119.43		
Iowa	348,011.02	36,007.19		384,018.21	245,835.23	136,199.16	2,863.82				
Jackson	273,630.37	43,060.87		316,730.20	239,539.49	77,190.71					
Jasper	481,666.57	61,069.44	18,616.70	561,342.71	311,395.62	249,947.09					
Jefferson	308,773.26	25,021.10	26,108.92	359,903.28	215,171.97	135,057.11					
Johnson	207,336.76	32,245.67	36,217.24	275,799.67	225,501.49	28,811.21	21,617.60		*180.63		
Jones	733,442.73	40,034.73	1,416.00	774,893.63	182,604.31	591,085.39	1,773.96	2,821.12			
Keokuk	401,530.99	32,466.97		433,997.96	62,455.22	369,479.69	8,241.93				
Kossuth	500,003.30	61,654.74	33,750.00	685,408.04	181,740.82	539,502.83	6,614.36		*42,449.97		
Lee	700,945.99	42,009.07	3,541.25	777,186.31	120,373.66	632,632.36	4,180.29				
Linn	94,244.05	67,900.60	96,203.46	258,348.11	185,930.79	152,924.53	18,552.76		*99,050.97		
Louis	59,000.82	28,865.65		87,866.47	87,866.47						
Lucas	419,422.79	24,923.92	1,416.00	445,762.71	94,032.83	340,325.79	11,404.09				
Lyon	33,360.50	24,080.32		57,440.82	53,099.37		4,241.45				
Madison	148,734.18	27,673.73		176,407.91	172,621.95		3,685.96				
Marion	233,499.29	34,716.78		268,216.07	244,971.62	12,363.98	10,980.47				
Marshall	180,848.07	45,071.53	46,579.91	272,499.51	228,919.62	38,109.03			*29,333.68		
Mills	85,388.40	35,292.02		167,170.33	158,414.98	332,106.64	7,468.01				
Mitchell	445,741.03	32,836.78		478,577.81	139,003.16	339,574.65	14,942.06				
Monona	27,502.69	38,284.76		65,787.45	50,845.39						
Monroe	584,980.21	24,302.36	40,125.00	649,407.57	118,684.49	530,723.08	6,742.52	4,875.13			
Montgomery	687,805.16	37,523.54	1,416.00	726,744.70	312,738.91	402,388.14	23,680.63				
Muscatine	719,614.48	23,133.19		742,747.67	137,192.19	581,894.85					
Muscatine	409,228.92	45,968.80	13,850.00	529,065.72	146,544.48	367,451.53	15,034.29			35.42	
O'Brien	636,093.26	26,710.71	78,300.00	761,703.97	320,703.94	564,789.35	6,381.85		*129,171.17		
Oscola	17,536.43	24,905.41		42,441.84	35,504.26		6,987.58				
Page	629,022.80	34,305.37	708.00	664,036.23	39,939.85	596,514.47	28,341.91				
Palo Alto	321,140.97	29,960.58		351,101.55	393,613.91		12,151.92		*54,666.28		

FINANCIAL STATEMENT

Plymouth	671,804.25	40,748.79	11,544.50	724,187.54	70,073.51	654,114.03			12,759.13		
Pocahontas	46,015.62	46,068.42		92,084.04	82,222.92				*394,125.14		
Polk	46,212.39	42,952.67	118,505.00	206,970.06	160,991.09	431,103.51					
Pottawattamie	694,841.00	85,543.57	9,739.50	790,124.07	531,367.01	258,756.06					
Poweshiek	540,253.11	53,099.69	12,133.00	605,485.80	159,434.16	446,051.64					
Ringgold	69,809.17	26,633.22		96,442.39	89,482.66		6,419.73				
Sac	48,467.94	52,306.16	122,882.50	203,656.60	100,864.10	15,586.12	30,010.21		*132,875.13		
Scott	137,170.93	35,804.20		172,975.13	382,636.46		17,651.42				
Shelby	33,576.21	31,013.02		64,589.23	46,336.81		18,400.62		*27,208.74	.01	
Story	40,397.53	41,161.92		81,559.45	90,307.56		6,900.00				
Tama	7,237.27	72,026.17	21,420.00	79,253.44	72,253.44	68,513.40	16,753.28				
Taylor	330,071.86	61,092.13		391,163.99	129,266.46		3,284.83				
Union	108,396.31	24,154.98		132,551.29	144,392.32		15,873.06				
Van Buren	135,761.42	24,504.56		160,265.98	62,298.19	436,662.40	1,263.24				
Wapello	457,805.86	42,357.97	46,915.00	500,223.83	157,316.90	313,255.16	9,545.23				
Warren	670,618.72	50,418.82		721,037.54	308,075.07	393,696.71	19,265.76				
Washington	473,712.44	52,359.98	2,479.00	528,551.42	163,039.31	360,411.19	6,100.92				
Wayne	125,809.87	29,889.01		155,698.88	148,506.92		7,101.96				
Webster	11,904.50	66,907.52		78,812.02	67,969.74		10,512.27			.01	
Winnebago	2,273.89	35,964.87		37,838.76	35,564.87		2,273.89				
Winneshek	537,035.66	44,823.33	3,718.50	605,577.49	72,651.28	529,297.30	3,629.05				
Woodbury	490,883.06	37,693.20	139,500.00	668,076.26	395,931.34	362,094.92					
Worth	400,137.75	38,926.12	354.00	439,417.87	132,913.20	295,691.03	10,832.74				
Wright	103,571.04	43,327.13		146,898.17	143,763.47		3,133.90				
Maint. general		6,549.88		6,549.88	6,549.88						
E. I. & A.	1,644,891.12			1,644,891.12	1,644,891.12						
Totals	\$80,308,543.68	\$3,809,954.81	\$1,406,415.35	\$85,614,913.84	\$16,968,301.85	\$19,135,980.36	\$799,763.41	\$41,143.08	\$*1,381,459.71	\$ 6,916.24	\$15,259.73

E. I. & A.—Engineering, Inspection and Administration.
 *Minus amounts caused by refunding of Special Assessments.

IOWA STATE HIGHWAY COMMISSION

SCHEDULE NO. 8
CONSTRUCTION EXPENDITURES CLASSIFIED BY KIND OF WORK FOR THE PERIOD
DECEMBER 1, 1927 TO NOVEMBER 30, 1928

County	Excavation	Graveling	Paving	Tilling	Guard Rail	Material	Right of Way	Bridges	Engineering	Right of Way and Bridge Refund	Total
Adair	\$ 37,808.62	\$ 34,401.87	\$ 17,400.95		\$ 653.75		\$ 2,450.30	15,334.05		\$ 7,164.99	115,283.53
Adams	31,536.90						6,757.75	15,399.18		11,538.42	65,932.25
Allamakee	10,089.09	32,257.82	33,434.26		18,735.37			1,798.00		4,092.18	101,406.72
Appanoose	91,230.55	54.09	49,210.11	\$ 4,707.57				96,125.85		7,770.42	265,900.26
Audubon	81,631.84				1,550.42			71,213.75		6,383.13	183,284.69
Benton	90,419.97	24,707.59	296,015.99	75.11			15,597.94	5,041.74	876.23	11,700.90	444,465.47
Black Hawk										7,450.99	7,450.99
Boone	75,512.26	13,061.84		57.53			13,410.10	121,475.62		3,337.68	236,855.03
Bremer	139,834.78	12,652.18	497,650.35	861.94			40,111.44	34,574.89		5,631.46	731,314.04
Buchanan	33,017.77	484.84	102,146.35	704.01			11,144.75	30,006.01		1,497.72	269,091.45
Buena Vista	15,083.04	17,110.10	3,183.81	3,592.71			28.00	1,993.00		4,459.87	45,462.53
Butler	66,592.91		337,447.06	249.33	25.77		9,803.35	22,124.70		7,071.54	503,314.66
Calhoun	11,419.76	12,464.76		199.00				1,788.34		11,454.44	35,537.96
Carroll	4,846.75	46,689.85						43,412.43		5,753.03	59,077.97
Cass	73,810.86							34,426.38		5,655.66	156,363.79
Cedar	46,274.85	56,012.60	299,423.15	1,092.33	2,365.29		12,497.73	25,835.53		2,900.63	454,392.36
Cerro Gordo	431.74			529.61			9,678.35			10,108.76	46,583.99
Cherokee	9,109.96	2,053.34			1,600.60			5,145.53		3,299.03	21,212.76
Chickasaw	32,874.07	564.89	163,585.76	89.82	30.00		7,473.50	24,215.12		10,799.11	239,628.27
Clarke	47,919.62		279,551.29	2,033.96	1,103.16		1,188.90	3,097.76		12,427.29	347,321.88
Clay	15,318.52	15,992.66		50.00							31,361.18
Clayton	92,646.46	25,708.21	411,567.27	1,104.84			7,785.76	41,092.97		8,633.10	588,398.61
Clinton	67,328.03		223,371.09				6,629.64	*13,507.16		29,875.11	313,697.61
Crawford	5,198.22	11,776.09		540.00	879.00		887.33	5,079.87		7,744.08	32,654.59
Dallas	21,573.69				1,709.59		14,774.70	32,384.38		16,100.19	86,908.55
Davis	25,693.39		362,154.24				931.15	270.00		31,274.63	439,343.41
Decatur	142,832.36		297,309.25				28,780.35	53,549.15		529,141.58	979,895.94
Delaware	111,990.63		542,583.85				23,756.33	96,733.58		6,650.47	779,895.94
Des Moines	77,901.96	9,114.60	136,229.37	393.64	1,135.14		14,141.30	50,491.19	1,996.63	4,771.35	291,434.73
Dickinson	27,253.98	17,497.13									44,751.11
Dubuque	164,784.57		535,160.81	280.80	3,848.00		18,361.55	19,837.95	85.50		742,385.18
Emmet	4,220.57	5,712.28		8.50			2,543.95	2,983.19		4,836.54	29,325.03
Fayette	147,041.86	38,972.17	509,080.25	2,385.63			20,046.92	69,786.16		15,193.35	876,006.34
Floyd	12,477.00	19,225.69	3.35	107.28			3,237.79			12,920.04	47,271.75
Franklin	78,060.50	36,120.56	445,629.47	3,635.49			12,496.58	23,972.49		1,665.95	602,200.04
Fremont	77,614.46		512,161.08				7,891.13	46,161.11		10,662.33	654,400.58
Greene	2,079.62	4,233.88					334.00			3,039.55	13,699.45
Grundy	15,724.86							13,651.30		5,339.69	34,715.81

FINANCIAL STATEMENT

Guthrie	28,465.17	32,004.51	3190.77	73.70	1,920.70		21,786.45	20,126.63		10,121.80	112,806.33
Hamilton			100.00	461.28				7,800.00			10,180.12
Hancock	7,597.74	7,666.78		2,104.69				15,423.37		5,356.51	14,522.53
Hardin	142,836.00	4,966.00	425,319.62	990.00			34,055.01	21,291.87		8,230.95	36,202.69
Harmon	44,456.92	4,084.29	442,704.64				940.19	92,264.33	343.60	9,937.30	638,315.80
Henry	6,679.63	1,970.41	166,587.28		371.73		9,369.71	42,203.44		3,771.87	588,565.84
Howard	6,385.19	2,992.70		892.16						13,340.29	234,722.49
Humboldt	19,302.33	1,969.20		3,800.63	2,469.72		29,635.60	13,106.20		7,363.82	10,239.96
Ida	113,781.65		121,340.44	214.75			16,878.50	92,931.86		2,803.82	77,007.50
Iowa	66,707.27	31,008.97	35,815.16		769.16		60,534.79	78,794.98			348,011.02
Jackson	118,986.98	78,714.27	237,441.79	3.18			8,246.15	38,274.20			273,639.33
Jasper	31,370.74	21,152.70	237,557.81	516.97	3,723.28		991.96	3,785.60		9,674.20	481,606.57
Jefferson	42,738.69	10,457.73	79,490.26	50.25			8,500.06	44,482.17		21,617.60	308,778.26
Jones	66,836.57	17,391.58	548,690.45	40.08	238.40		8,111.58	90,370.31		1,773.93	207,336.76
Keokuk	9,179.26	5,601.70	362,320.55	80.15			10,122.75	5,984.55		8,241.93	733,442.90
Kossuth	104,693.22	8,923.37	425,793.46	51.60			26,000.89	17,917.40		6,614.36	401,530.99
Lee	68,827.59	3,418.05	587,309.25		498.90		12,412.63	54,299.19		4,180.29	590,063.30
Linn	18,290.87	21,888.97	50.00	2.40	6,223.59		26,754.56	17,693.46		18,552.76	730,945.99
Louisa	13,879.92	514.58		158.30			15,512.13	16,006.78		11,404.00	14,244.05
Lucas	46,642.20	4,040.50	325,817.00				1,605.59	8,463.45		4,241.45	59,000.82
Lyon	18,651.12	208.98					16,429.05	46,254.05		3,685.96	419,422.79
Madison	56,298.29	26,066.83					62,104.00	8,111.93		3,685.96	33,290.50
Mahaska	84,674.67	11,279.30	56,247.56	101.36			25,707.82	62,906.72		10,080.47	148,734.18
Marion	85,027.33	7,307.20					18,793.43	32,886.23		7,468.01	283,499.29
Marshall	9,536.00	7,310.18					2,084.50	66,139.03		85,388.40	180,848.07
Mills	57,751.10		317,242.26				7,017.42	23,928.94		14,942.06	55,388.40
Mitchell	8,757.46	766.84			445.33		9,075.99	9,457.39		6,742.52	446,741.03
Monona	66,236.84	45,007.52	442,627.49	105.00			20,000.07	67,794.05	518.25	28,341.91	27,502.69
Monroe	58,934.44	5,866.35	597,210.32				31,388.07	86,844.45		14,942.06	384,980.21
Montgomery	106,019.63	46,494.88					21,181.58	56,656.32		6,742.52	687,806.16
Muscatine	119,922.54		592,114.10	2,588.21			1,568.00	2,538.84		23,680.63	719,614.48
O'Brien	60,992.47		166,956.48				8,401.90	1,975.00		15,034.29	469,228.92
Osceola	2,063.65	8,535.20	512,481.04				1,568.00	2,538.84		5,381.85	656,660.26
Page	50,569.98		545,955.02	48.51			8,401.90	1,975.00		6,987.58	17,589.43
Palo Alto	30,164.51	2,769.27	238,759.50	1,057.97	5,770.90		10,330.51	44,707.37		28,341.91	629,022.86
Plymouth	75,000.48	45,470.57	496,385.32				1,927.05	197,391.76		12,151.92	321,140.97
Pocahontas	28,800.43	19,123.20					33,149.73	31,021.01			671,894.25
Polk	17,389.78		25,938.03	966.53			6,558.48	11,102.23		6,419.75	69,869.17
Pottawattamie	241,326.80		194,069.11	200.00			10,786.65	12,166.96		50,010.21	48,467.94
Poweshiek	100,840.62	95,997.65	277,049.09	1,778.99	600.00		329.80	35,688.80		137,170.96	137,170.96
Ringgold	17,193.48	27,965.25					123.00	583.23		17,651.42	33,575.21
Sac	21,513.05	3,893.66			157.60		835.50	5,715.87		18,460.62	40,397.53
Scott	2,464.19	98.34	69,676.48	103.08							7,297.97
Shelby	14,218.13	989.83	9.00								
Sioux	11,898.01	403.38	1,260.31		1,913.84						
Story	31.50	59.88		115.84			30.65			6,990.00	

SCHEDULE NO. 8—Continued

County	Excavation	Graveling	Paving	Tilling	Guard Rail	Material	Right of Way	Bridges	Engineering	Right of Way and Bridge Refund	Total
Tama	97,324.38	39,461.24	46,969.83		500.75		13,132.78	115,828.60		16,705.28	330,071.86
Taylor	48,363.62						21,280.23	35,467.64		3,284.83	108,396.31
Union	74,003.44			144.78			7,174.83	38,564.71		15,873.66	135,763.42
Van Buren	46,509.74		400,387.90				4,103.90	5,001.08		1,203.24	437,865.86
Wapello	48,820.89		324,398.07	344.70	2,773.61		16,654.01	14,378.00		9,545.23	416,813.11
Warren	96,889.91	15,069.45	366,781.17	16.27			49,496.18	123,099.98		19,265.76	670,618.72
Washington	39,443.62	32,756.16	354,243.47	427.62			12,991.71	27,748.94		6,100.92	473,712.44
Wayne	27,364.87	16,033.28					24,417.30	50,802.46		7,101.96	125,809.87
Webster	1,000.00			166.71	225.52					10,512.27	11,904.50
Winnebago										2,273.89	2,273.89
Winneshiek	56,019.00		473,251.30				9,083.35	22,042.90		3,629.05	557,035.60
Woodbury	87,985.63	4,444.98	278,442.22		2,196.78		37,533.78	80,250.67			490,883.06
Worth	64,944.26	15,453.94	227,835.61				35,109.13	45,942.07		10,832.74	400,157.75
Wright	44,388.68	18,194.42					21,094.13	16,671.07		3,133.30	103,571.04
E. I. & A.											1,644,891.12
Totals	\$5,013,898.92	\$1,999,042.31	\$17,213,746.67	\$40,530.15	\$63,742.19	\$11,861.69	\$1,227,491.75	\$3,079,755.26	\$1,648,711.33	\$799,763.41	\$30,308,543.68

*Indicates minus amounts due to refunds.

SCHEDULE NO. 9
RECEIPTS AND EXPENDITURES BY FUNDS FOR YEAR
DECEMBER 1, 1927 TO NOVEMBER 30, 1928

Funds	Balance December 1, 1927	Receipts During Year	Total	Expended for			Total Expended	Balance November 30, 1928
				Construction	Maintenance	Bond R. & I.		
Primary road	\$ 3,253,694.05	\$14,604,521.19	\$17,858,125.24	\$11,691,031.67	\$ 3,809,034.81	\$ 1,496,415.35	\$16,996,501.83	\$ 859,823.41
Bond	1,169,893.49	20,189,206.01	21,359,099.50	19,136,980.36			19,136,980.36	2,222,019.14
Right of way and bridge refund	1,024,322.00	2,994,387.19	4,018,709.19	799,763.41			799,763.41	3,218,945.78
Anticipation certificate	6,880.82	35.42	6,916.24	6,916.24			6,916.24	.00
Special assessment	587.85	*1,381,487.17	*1,382,075.02	*1,381,459.71			*1,381,459.71	620.39
County	.00	13,259.73	13,259.73	13,259.73			13,259.73	.00
City	.00	41,143.08	41,143.08	41,143.08			41,143.08	.00
Totals	\$ 5,446,228.81	\$36,461,065.45	\$41,907,294.26	\$30,308,543.68	\$ 3,809,954.81	\$ 1,496,415.35	\$35,614,913.84	\$ 6,292,410.42

*Minus amounts caused by refunding of special assessments.

SCHEDULE NO. 10
RECEIPTS AND EXPENDITURES BY FUNDS AND PURPOSES
DECEMBER 1, 1927 TO NOVEMBER 30, 1928

Funds	Total Receipts	Expended for				Total Expended	Balance November 30, 1928
		Construction	Maintenance	Anticipation Certificate Redemption and Interest	Bond Redemption and Interest		
Primary road	\$ 98,272,369.37	\$ 56,301,325.27	\$ 24,800,926.73	\$ 12,871,065.24	\$ 3,379,198.72	\$ 97,412,545.96	\$ 859,823.41
Bond	47,881,882.13	45,608,801.80				45,608,801.80	2,213,080.24
Right of way and bridge refund	4,027,442.82	808,496.44				808,496.44	3,218,946.38
Anticipation certificate	12,258,987.33	12,258,987.33				12,258,987.33	.00
Development	3,347,934.27	3,078,934.27			269,000.00	3,347,934.27	.00
Special assessment	1,653,743.40	1,653,183.01				1,653,183.01	560.39
County	380,930.37	380,930.37				380,930.37	.00
City	1,461,638.22	1,461,638.22				1,461,638.22	.00
Totals	\$ 169,286,367.91	\$ 121,613,736.80	\$ 24,800,926.73	\$ 12,871,065.24	\$ 3,648,198.72	\$ 162,993,957.49	\$ 6,292,410.42

*This total construction expenditure includes \$2,419,669.93 of primary funds expended on secondary roads.

FINANCIAL STATEMENT

SCHEDULE NO. 11
CONSOLIDATED CASH STATEMENT OF ALL FUNDS
DECEMBER 1, 1927 TO NOVEMBER 30, 1928

RECEIPTS

Balances, November 30, 1927:

Primary Road Funds, General Account.....	\$ 3,253,604.05	
Primary Road Funds—Right of Way, Bridge and Culvert Refund Account.....	1,024,322.60	
Primary Road Bond Fund.....	1,160,863.49	
Anticipation Certificate Fund.....	6,880.82	
Special Assessment Fund.....	587.85	
Highway Commission Support Fund.....	212,327.94	
Contingent Fund (Revolving).....	300,000.00	\$ 5,958,586.75

Primary Road Fund:

Motor Vehicle License Fees.....	\$ 9,605,429.70	
Gasoline License Fees—Two Cents Tax.....	1,791,000.00	
Gasoline License Fees—One Cent Tax.....	2,994,387.19	
Federal Aid.....	2,831,580.33	
Miscellaneous (Refunds, Etc.).....	2,929.51	
Transfers:		
From Highway Commission Support Fund.....	208,173.39	
From Motor Vehicle Department.....	165,408.26	17,598,908.38

Primary Road Bond Fund:

Bonds Sold, Principal.....	\$20,022,000.00	
Premiums on Bonds Sold.....	96,325.10	
Accrued Interest on Bonds Sold.....	70,880.91	20,189,206.01

Anticipation Certification Fund:

Certificates Issued, Principal.....	.00	
Accrued Interest on Certificates Issued.....	35.42	
Premium Certificates Issued.....	.00	35.42

Special Assessment Fund:

Assessments Levied.....	\$ 38,020.68	38,020.68
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Highway Commission Support Fund:

Motor Vehicle License Fees.....	\$ 266,554.31	
Miscellaneous Sales.....	42,296.17	308,850.48

Total Receipts.....\$38,135,020.97

Total Funds Available.....\$44,093,607.72

DISBURSEMENTS

Primary Road Fund:

Construction.....	\$11,691,931.67	
Maintenance.....	3,809,954.81	
Primary Road Bond Redemption and Interest.....	1,496,415.35	
Right of Way, Bridge and Culvert Refunds.....	799,763.41	\$17,798,065.24

Primary Road Bond Fund:

Construction.....	\$19,136,989.26	19,136,989.26
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Anticipation Certificate Fund:

Construction.....	6,916.24	6,916.24
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Special Assessment Fund:

Construction.....	38,048.14	38,048.14
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Highway Commission Support Fund:

General and Administrative Expenditures.....	220,469.28	
Reverted to Primary Road Fund.....	208,173.39	428,642.67

Total Disbursements.....\$37,408,661.55

Balances November 30, 1928:

Primary Road Fund, General Account.....	\$ 859,823.41	
Primary Road Fund, Right of Way, Bridge and Culvert Refund Account.....	3,218,946.38	
Primary Road Bond Fund.....	2,213,080.24	
Anticipation Certificate Fund.....	.00	
Special Assessment Fund.....	560.39	
Highway Commission Support Fund.....	92,535.75	
Contingent Fund (Revolving).....	300,000.00	\$ 6,684,946.17

Total Accounted For.....\$44,093,607.72

IOWA STATE HIGHWAY COMMISSION

SCHEDULE NO. 12

MEMORANDUM SHOWING COUNTY PRIMARY ROAD BONDS VOTED,
ISSUED, REDEEMED AND OUTSTANDING.
NOVEMBER 30, 1928

County	Authorized	Issued	Redeemed	Outstanding
Adair	\$ 800,000	\$ 70,000		\$ 70,000
Appanoose	650,000	395,000		395,000
Benton	1,242,673	1,000,000		1,000,000
Black Hawk	1,500,000	1,500,000	\$ 310,000	1,190,000
Bremer	900,000	855,000		855,000
Buchanan	1,000,000	300,000		300,000
Butler	1,200,000	525,000		525,000
Cedar	712,000	712,000		712,000
Cerro Gordo	750,000	750,000	276,000	474,000
Chickasaw	600,000	305,000		305,000
Clarke	380,000	350,000		350,000
Clayton	1,500,000	500,000		500,000
Clinton	2,800,000	2,300,000	725,000	1,575,000
Davis	600,000	400,000		400,000
Decatur	500,000	200,000		200,000
Delaware	850,000	650,000		650,000
Des Moines	1,000,000	800,000		800,000
Dubuque	1,800,000	1,490,000		1,490,000
Fayette	1,200,000	680,000		680,000
Floyd	1,000,000	855,500	265,000	590,500
Franklin	750,000	675,000	15,000	660,000
Fremont	600,000	562,000		562,000
Greene	1,000,000	780,000	40,000	740,000
Hancock	1,000,000	730,000	225,000	505,000
Harrison	1,000,000	870,000		870,000
Henry	900,000	500,000		500,000
Howard	750,000	200,000		200,000
Iowa	900,000	135,000		135,000
Jackson	1,000,000	195,000		195,000
Jasper	800,000	695,000		695,000
Jefferson	800,000	776,000		776,000
Johnson	849,148	849,000		849,000
Jones	1,200,000	635,000		635,000
Keokuk	1,300,000	365,000		365,000
Kossuth	1,500,000	835,000	20,000	815,000
Lee	1,488,000	795,000		795,000
Linn	1,467,836	1,467,000	60,000	1,407,000
Lucas	532,000	355,000		355,000
Mahaska	1,000,000	850,000		850,000
Marshall	800,000	800,000	10,000	790,000
Mills	400,000	230,000		230,000
Monona	1,000,000	920,000	30,000	890,000
Monroe	600,000	400,000		400,000
Montgomery	600,000	600,000		600,000
Muscatine	650,000	520,000		520,000
O'Brien	1,500,000	1,500,000	350,000	1,150,000
Page	900,000	665,000		665,000
Plymouth	1,300,000	745,000		745,000
Polk	3,500,000	3,425,000	772,000	2,653,000
Pottawattamie	1,600,000	520,000		520,000
Poweshiek	560,000	560,000		560,000
Scott	3,250,000	3,250,000	564,000	2,686,000
Tama	504,000	504,000		504,000
Van Buren	500,000	500,000		500,000
Wapello	1,000,000	760,000	67,000	693,000
Warren	1,200,000	445,000		445,000
Washington	1,000,000	430,000		430,000
Wayne	800,000			
Winneblesh	1,200,000	580,000		580,000
Woodbury	3,200,000	2,885,000	750,000	2,135,000
Worth	650,000	350,000		350,000
Total	\$ 66,535,657	\$ 47,595,500	\$ 4,479,000	\$ 43,116,500

*Voted under Chapter 242.

FINANCIAL STATEMENT

SCHEDULE NO. 13—PART I
MAINTENANCE UNITS AND CLASSIFICATION
PRIMARY ROADS

(See Schedule No. 13, Part 2, for Maintenance Expenditures by Counties and Units.)

County	Unit	Primary Road No.	From	To	Condition November 30, 1928	Earth Road Not Built	Earth Road Built to Grade	Surfaced Gravel or Rock	Paved	Miles in Unit	Total Miles in Primary System
Adair	1	2	Cass Co.	Fontanella	8.8		4.5			13.3	
	2	2	Fontanella	Greenfield			15.9			15.9	
	3	2	Greenfield	Guthrie Co.			12.2			12.2	
	4	2	Greenfield	Madison Co.				7.9	0.3		
		25	Greenfield	Orient				2.8	0.1	11.1	
		25	Orient	Union Co.							
Adams	1	34	Montgomery Co.	Corning	8.8		32.6	10.7	0.4		52.5
	2	34	Corning	Union Co.			10.1			10.1	
	3	148	Corning	Taylor Co.			13.8			13.8	
	4	49	Road No. 34	Taylor Co.			5.8			5.8	
		49	Taylor Co.	Lenox			5.6			6.6	
Alamakee	1	9	Winneblesh Co.	Waukon			36.3				36.3
	2	9	Waukon	Lansing				7.8		7.8	
	3	13	Waukon	Minnesota			20.0	16.1		16.1	
	4	119	Road No. 13	Dorchester			1.0	2.6		21.5	
	5	51	Waukon	Road No. 51				14.8		17.4	
		51	Road No. 13	Postville						20.4	
		13	Clayton Co.	Road No. 51			20.4				
Total					41.4		0.5	41.3			83.2

SCHEDULE NO. 13—PART I—Continued

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IOWA STATE HIGHWAY COMMISSION

County	Unit	Primary Road No.	From	To	Condition November 30, 1928				Miles in Unit	Total Miles in Primary System
					Earth Road Not Built	Earth Road Built to Grade	Surfaced Gravel or Rock	Paved		
Appanoose	1	3	Wayne Co.	End of pavement	0.3	4.9				
		138	Road No. 3	Mystic			3.0		8.2	
	2	3	End of pavement	Davis Co.		11.1				
		142	Road No. 3	Moulton		2.3			13.4	
	3	6	End of pavement	Monroe Co.		7.9			7.9	
	4	6	Missouri	Cincinnati	9.5					
		6	Cincinnati	End of pavement			5.5		15.0	
	5	3	Centerville	Pavement west				5.8		
		3	Centerville	Pavement east				1.3		
		3	Centerville	Pavement north				2.9		
		3	Centerville	Pavement south				3.3	13.3	
Total					9.8	26.2	8.5	13.3		57.8
Audubon	1	7	Shelby Co.	Kimballton		0.8				
		7	Kimballton	Road No. 71		9.4			10.2	
	2	7	Road No. 71	Guthrie Co.		8.5			8.5	
	3	71	Carroll Co.	Audubon		9.4				
		71	Audubon	W. Jet. No. 71 and No. 7		3.3			12.7	
	4	71	W. Jet. No. 71 and No. 7	Exira		4.9				
		71	Exira	Brayton		3.1				
		71	Brayton	Cass Co.		2.7			10.7	
Total						42.1				42.1
Benton	1	218	Road No. 8	Black Hawk Co.		8.0				
		8	Road No. 218	Tama Co.			5.3		13.3	
	2	101	End of pavement	Road No. 11		9.2	3.1			
		11	Linn Co.	Buchanan Co.			4.0			
	2	92	Road No. 101	Urbana		0.7			17.0	
	3	218	Road No. 30	Vinton			0.1	12.7		
		218	Vinton	Road No. 8				9.0		
		101	Vinton	End of pavement				1.6	23.4	
	4	30	Linn Co.	Tama Co.				27.1		
		73	Belle Plaine	Iowa Co.	0.3			1.2	28.6	
	5	82	Road No. 30	Blairstown			3.6		3.6	
Total					0.3	17.9	16.1	51.6		85.9

Black Hawk	1	20	Grundy Co.	Cedar Falls				4.6		
		20	Cedar Falls	Waterloo				4.4		
		20	Waterloo	Buchanan Co.				12.6		
		218	Benton Co.	LaPorte City				0.2		
		218	LaPorte City	Waterloo				11.7		
		218	Waterloo	Cedar Falls				1.1		
		218	Cedar Falls	Bremer Co.	0.1			7.1		
		59	Hudson	Waterloo				6.2	48.0	
	2	59	Hudson	Tama Co.			7.1			
		90	Road No. 59	Grundy Co.			4.0		11.1	
Total	3	57	Grundy Co.	Cedar Falls			5.6		5.6	
	4	59	Waterloo	Bremer Co.			7.9		7.9	
					0.1		24.6	47.9		72.6
Boone	1	30	Story Co.	Boone			9.6			
		30	Boone	Ogden			6.5			
	2	17	Greene Co.	Dallas Co.			6.6		22.7	
	3	16	Dallas Co.	Ogden			8.0		8.0	
		16	Road No. 30	Webster Co.			11.5			
	4	60	Polk Co.	Madrid			11.2		22.7	
		60	Madrid	Road No. 30			1.4			
		60	Road No. 30	Hamilton Co.			13.3			
Total							10.5		25.2	
Bremer	1	218	Black Hawk Co.	Waverly			78.6			78.6
		218	Waverly	Chickasaw Co.			0.6	3.4		
		10	Waverly	Road No. 59				13.5		
	2	59	Road No. 10	Black Hawk Co.				6.4		
		10	Butler Co.	Road No. 218				5.3	29.2	
	3	10	Road No. 59	Fayette Co.			3.7			
		59	Road No. 10	Chickasaw Co.			13.0		16.7	
	4	93	Road No. 59	Sumner		14.3			14.3	
Total						3.6	9.3		12.9	
Buchanan	1	20	Black Hawk Co.	Jesup		17.9	26.6	28.6		73.1
		20	Jesup	Independence				0.9		
		20	Independence	Winthrop				8.1		
		20	Winthrop	Delaware Co.				7.5		
	2	11	Independence	Hazleton				6.8	23.3	
		11	Hazleton	Fayette Co.		10.0				
	3	11	Benton Co.	Independence			1.4		11.4	
							11.3		11.3	
Total							22.7	23.3		46.0

SCHEDULE NO. 13—PART I—Continued

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FINANCIAL STATEMENT

SCHEDULE NO. 13—PART I—Continued

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County	Unit	Primary Road No.	From	To	Condition November 30, 1928				Miles in Unit	Total Miles in Primary System
					Earth Road Not Built	Earth Road Built to Grade	Sur-faced Gravel or Rock	Paved		
Buena Vista	1	5	Storm Lake	Cherokee Co.			7.9		7.9	
	2	5	Storm Lake	Pocahontas Co.			15.0			
		71	Road No. 5	Sac Co.			4.5		19.5	
	3	10	Clay Co.	Pocahontas Co.			20.5		20.5	
	4	71	Storm Lake	Clay Co.			19.7		19.7	
Total							67.6			67.6
Butler	1	14	Floyd Co.	Greene			0.3			
		14	Greene	Allison			9.1			
		14	Road No. 10	Parkersburg	2.1		10.2			
		14	Road No. 20	Grundy Co.			1.3		23.0	
	2	10	Franklin Co.	Shell Rock			5.0	18.5		
		10	Shell Rock	Bremer Co.			0.7			
		53	Road No. 10	Clarksville			2.5		26.7	
	3	20	Black Hawk Co.	Butler Co.			5.0			
		20	Grundy Co.	Parkersburg			8.3			
		20	Parkersburg	Grundy Co.			9.4			
		20	Grundy Co.	Ackley			4.3		27.0	
Total					2.1		56.1	18.5		76.7
Calhoun	1	5	Pomeroy	Webster Co.			11.3		11.3	
	2	20	Sac Co.	Webster Co.			24.1		24.1	
	3	151	Sac Co.	Road No. 17			11.2		11.2	
	4	17	Greene Co.	Road No. 5			26.3			
		124	Road No. 17	State Park			0.6		26.9	
Total							73.5			73.5

IOWA STATE HIGHWAY COMMISSION

Carroll	1	46	Greene Co.	Coon Rapids			2.0			
		46	Coon Rapids	Dedham			9.0			
		46	Dedham	Road No. 71			3.4			
	2	30	Road No. 71	Crawford Co.			7.0		21.4	
		30	Crawford Co.	Carroll			11.0			
	3	71	Carroll	Greene Co.			12.5		23.5	
		71	Audubon Co.	Templeton			4.0			
		71	Templeton	Carroll			12.7			
		71	Carroll	Sac Co.			9.5		26.2	
Total							71.1			71.1
Cass	1	32	Pottawattamie Co.	Atlantic	4.5	6.1				
		32	Atlantic	Wlota		4.8		0.5		
		32	Wlota	Anita		5.9				
		32	Anita	Adair Co.		3.1				
		32	Adair Co.	Adair		3.3				
	2	71	Montgomery Co.	Road No. 32		16.9			28.2	
		71	Road No. 32	Audubon Co.		7.0				
	3	100	Road No. 71	Griswold					23.9	
		2	Road No. 71	Lewis	7.9					
		2	Road No. 71	Cumberland	4.8					
		2	Cumberland	Massena	5.6					
		2	Massena	Adair Co.	6.1					
					3.5				27.9	
Total					32.4	47.1		0.5		80.0
Cedar	1	30	Linn Co.	Clinton Co.						
	2	38	Jones Co.	Stanwood				23.2	23.2	
		38	Road No. 30	Tipton			3.3			
		38	Tipton	Road No. 139			6.2		7.9	
		38	Road No. 139	Muscatine Co.		6.3	3.1		26.8	
	3	139	Road No. 38	Johnson Co.			11.5		11.5	
	4	74	Tipton	Scott Co.			13.9		13.9	
Total						6.3	28.0	31.1		75.4
Cerro Gordo	1	18	Floyd Co.	Mason City						
		18	Mason City	Clear Lake				7.4		
		18	Clear Lake	Hancock Co.				6.1		
		65	Franklin Co.	Mason City				4.5		
		65	Mason City	N. end of pavement				13.6		
	2	65	N. end of pavement	Worth Co.				1.2	32.8	
	3	107	Clear Lake	Thornton			5.4		5.4	
	4	106	Clear Lake	South Shore			11.7		11.7	
							3.2		8.2	
Total							20.3	32.8		53.1

FINANCIAL STATEMENT

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SCHEDULE NO. 13—PART I—Continued

County	Unit	Pri- mary Road No.	From	To	Condition November 30, 1928				Miles in Unit	Total Miles in Primary System
					Earth Road Not Built	Earth Road Built Grade	Sur- faced Gravel or Rock	Paved		
Cherokee	1	5	Buena Vista Co.	Aurelia			4.5			
		5	Aurelia	Cherokee			7.4			
	2	21	Cherokee	Plymouth Co.			18.0		29.9	
		21	Ida Co.	Cherokee			13.4			
Chickasaw	3	110	Cherokee	O'Brien Co.			10.9		24.8	
		31	Road No. 21	Larrabee			0.5			
	3	31	Quimby	Washita			6.1			
		31	Washita	Ida Co.			4.9			
Clarke	4	33	Road No. 5	Meriden			3.4		11.5	
		145	Road No. 5	Cleghorn			4.6			
		143	Road No. 5	Marcus			1.0		9.0	
	Total						75.2			75.2
Chickasaw	1	18	Floyd Co.	Bassett			2.0			
		18	Bassett	New Hampton			9.2		11.2	
	2	218	Floyd Co.	Bremer Co.				3.0	3.0	
	3	59	Howard Co.	New Hampton			10.3		5.8	
Clarke	4	59	New Hampton	Williamstown			4.0		20.3	
		59	Williamstown	Bremer Co.	0.2		11.2		11.2	
	4	18	Williamstown	Fayette Co.			13.1		15.1	
	5	24	New Hampton	Winnesiek Co.	2.0					
Clarke					2.2		49.8	8.8		60.8
	1	34	Union Co.	Osceola		12.6				
	2	152	Road No. 34	Murray		0.5			13.1	
	3	34	Osceola	Lucas Co.		10.4				
Total	3	104	Road No. 34	Woodburn	1.3				11.7	
		65	Osceola	Warren Co.				12.1	12.1	
	4	65	Osceola	Decatur Co.		9.0			9.0	
	Total				1.3	32.5		12.1		45.9

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Clay	1	10	O'Brien Co.	Buena Vista Co.			6.5			6.5
	2	71	Dickinson Co.	Spencer			7.3			7.3
	3	18	O'Brien Co.	Palo Alto Co.			24.5			24.5
	4	71	Spencer	Buena Vista Co.			16.0			16.0
Clayton							54.3			54.3
	1	10	Fayette Co.	Strawberry Point				3.0		
	2	13	Elkader	Strawberry Point				14.0		
	3	19	Road No. 112	Delaware Co.		2.2	5.4		7.6	
Clinton										
	4	55	Road No. 13	Road No. 128	9.5					
	5	55	Guttenberg	Dubuque Co.	2.4				22.5	
			McGregor	Allamakee Co.	6.1				10.6	
Clinton										
	1	13	Fayette Co.	Elkader		4.5				
	2	18	Elkader	Road No. 18			12.1			
	3	18	Road No. 55	McGregor			6.1			
Crawford										
	4	55	Road No. 13	Postville			14.0			
	5	128	Road No. 13	Guttenberg		0.9	8.1		48.3	
				Road No. 55			7.1			
Crawford										
	1	30	Cedar Co.	Clinton	29.5	6.7	52.8	17.0		106.0
	2	99	Road No. 30	Camanche				32.9		
	3	61	Jackson Co.	Scott Co.			0.3	1.1		
Crawford										
	4	61	DeWitt	DeWitt			15.5	5.5	6.9	
	5	136	Road No. 61	Charlotte			2.5	2.5	18.0	
			Clinton	Charlotte		10.3		16.4	16.4	
Crawford										
	1	45	Road No. 46	Manilla		10.3	0.3	73.9		84.5
	2	46	Shelby Co.	Carroll Co.		6.0	1.2			
	3	30	Harrison Co.	Road No. 30		10.2	7.0			
Crawford										
	4	30	Dow City	Dow City			6.9		24.4	
	5	30	Arion	Arion			1.2			
			Denison	Denison			5.4			
Crawford										
	3	30	Vall	Vall			7.3			
	4	141	Denison	Carroll Co.			4.6		95.4	
	5	141	Denison	Sac Co.			13.0		13.0	
Crawford										
	37	37	Charter Oak	Monona Co.		9.5	5.7		19.4	
			Dunlap	Monona Co.		4.2				
			Harrison Co.	Monona Co.		1.2			5.9	
Crawford										
	37	37	Harrison Co.	Monona Co.		4.7				
	Total				35.8	52.3				88.1

SCHEDULE NO. 13—PART I—Continued

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County	Unit	Primary Road No.	From	To	Condition November 30, 1928				Miles in Unit	Total Miles in Primary System
					Earth Road Not Built	Earth Road Built to Grade	Sur-faced Gravel or Rock	Paved		
Dallas	1	16	Adel	Madison Co.		8.1			8.1	
	2	7	Guthrie Co.	Road No. 17			13.2			
	3	7	Road No. 17	Polk Co.			10.8		24.0	
		32	Polk Co.	Wauke			6.2			
		32	Wauke	Adel			7.1			
		32	Adel	Redfield			8.3			
		32	Redfield	Dexter			5.6			
	4	95	Dexter	Madison Co.					27.2	
		95	Woodward	Bouton			4.5			
		16	Bouton	Road No. 16			0.7			
	4	16	Boone Co.	Road No. 17			1.9			
		17	Boone Co.	Perry			0.5			
		17	Perry	Minburn			8.1			
		17	Minburn	Adel			9.7		25.4	
Total						8.1	76.6			84.7
Davis	1	3	Appanoose Co.	Bloomfield		12.0			12.0	
	2	3	Bloomfield	Pulaski				9.1		
	3	63	Pulaski	Van Buren Co.				5.1		
	4	63	Bloomfield	Wapello Co.			10.3		10.3	
			Missouri	Road No. 3		10.9			10.9	
Total						22.9	10.3	14.2		47.4
Decatur	1	3	Ringgold Co.	Decatur	10.9					
	2	3	Decatur	Leon		3.8		0.3	15.0	
	3	65	Leon	Wayne Co.		9.9			9.9	
	4	65	Leon	Clarke Co.		10.6			10.6	
		69	Road No. 3	Davis City		1.6		6.0		
		69	Davis City	Lamoni		1.9		3.9		
		69	Lamoni	Missouri				3.0	16.4	
Total					10.9	27.8		13.2		51.9

IOWA STATE HIGHWAY COMMISSION

Delaware	1	20	Buchanan Co.	Dubuque Co.				22.1	22.1	
	2	116	Road No. 20	Fish Hatchery	1.6				1.6	
	3	13	Linn Co.	Clayton Co.			23.3			
	4	112	Road No. 13	Edgewood			1.9		25.2	
		113	Road No. 20	Jones Co.	8.2	5.0	2.5		15.7	
Total					9.8	5.0	27.7	22.1		64.6
Des Moines	1	34	Henry Co.	Danville				3.6		
		34	Danville	Middletown				3.3		
		34	Middletown	West Burlington				4.4		
		80	West Burlington	Burlington				0.4		
	2	61	Road No. 34	Burlington				4.0	15.7	
		61	Sec. 11-70-3	Mediapolis				9.1		
	3	61	Mediapolis	Sec. 2-72-3				3.0	12.1	
	4	61	Lee Co.	Burlington				6.6	6.6	
			Burlington	Sec. 11-70-3			2.9		2.9	
Total							2.9	34.4		37.3
Dickinson	1	9	Osceola Co.	Emmet Co.						
	2	71	Clay Co.	Millford			24.4		24.4	
	3	71	Spirit Lake	Minnesota			0.2	4.8	5.0	
	4	71	Millford	Spirit Lake			7.1		7.1	
Total							6.3		6.3	
Dubuque	1	55	End of gravel	Luxemburg			38.0	4.8		42.8
	2	20	Delaware Co.	Dubuque				18.4	18.4	
	3	161	Road No. 61	Jones Co.				21.1	21.1	
	4	61	Dubuque	Jackson Co.			20.2	0.4	20.6	
	5	55	Unpaved portions			10.8		2.0	12.8	
Total						2.8	5.1		7.9	
Emmet	1	9	Dickinson Co.	Kossuth Co.		13.6	25.3	41.9		80.8
	2	43	Road No. 9	Minnesota			22.6		22.6	
	3	17	Estherville	Palo Alto Co.			8.3		8.3	
Total							10.5		10.5	
Fayette	1	11	Buchanan Co.	West Union				41.4		41.4
	2	18	Chickasaw Co.	Postville		0.1		22.3	22.4	
		102	Road No. 18	Hawkeye	0.7		27.4	1.7		
	3	10	Bremer Co.	Clayton Co.			1.5		31.3	
	4	154	Road No. 11	Road No. 10			21.7	2.5	24.2	
	5	11	West Union	Winnebiek Co.			11.5		11.5	
		56	West Union	Clayton Co.		7.8				
Total					0.7	7.9	73.5	26.5		108.6

FINANCIAL STATEMENT

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SCHEDULE NO. 13—PART I—Continued

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IOWA STATE HIGHWAY COMMISSION

County	Unit	Primary Road No.	From	To	Condition November 30, 1928				Miles in Unit	Total Miles in Primary System
					Earth Road Not Built	Earth Road Built to Grade	Surfaced Gravel or Rock	Paved		
Floyd	1	18	Cerro Gordo Co.	Rudd				5.0		
		18	Rudd	Road No. 218—Floyd				7.2		
		18	Road No. 218—Floyd	Charles City				4.6		
	2	218	Charles City	Chickasaw Co.				8.9	25.7	
		218	Mitchell Co.	Road No. 18—Floyd			5.6		5.6	
	3	147	Road No. 18	Rockford			5.9			
		147	Rockford	Road No. 14	6.5					
	4	14	Road No. 147	Charles City			6.4		18.8	
		14	Road No. 147	Butler Co.			10.1			
	5	34	Road No. 14	Marble Rock			2.5		12.6	
		18	Charles City	Chickasaw Co.			5.0		5.0	
Total					6.5		35.5	25.7		67.7
Franklin	1	10	Wright Co.	Hampton			13.3		13.3	
	2	10	Hampton	Butler Co.			8.7		8.7	
	3	65	Cerro Gordo Co.	Hampton				8.1	8.1	
	4	65	Hampton	Hardin Co.				12.0	12.0	
Total							22.0	20.1		42.1
Fremont	1	3	Missouri River	Sidney	13.2				13.2	
	2	3	Sidney	Shenandoah		13.8			13.8	
	3	4	Tabor	Sidney				10.0		
	4	4	Sidney	Hamburg				8.2		
	4	4	Hamburg	State Line	1.5	0.3			20.0	
	4	48	Missouri	Page Co.	6.7				6.7	
	5	42	Road No. 4	Riverton	3.8				3.8	
Total					25.2	14.1		18.2		57.5

Greene	1	30	Carroll Co.	Scranton				5.3		
		30	Scranton	Jefferson				7.7		
		30	Jefferson	Grand Junction				5.8		
	2	17	Grand Junction	Boone Co.				3.2		
		17	Jefferson	N. end of pavement				2.0	24.0	
	3	17	Calhoun Co.	Churdan			3.9			
		25	Churdan	N. end of pavement			10.2		14.1	
	4	46	Guthrie Co.	Scranton			10.6			
		144	Carroll Co.	Road No. 25			3.9		14.5	
	5	144	Grand Junction	Dana			4.4			
		17	Dana	Webster Co.			7.9		12.3	
Grundy	1	17	Road No. 30	Rippey			6.3			
		17	Rippey	Boone Co.			1.5		7.8	
	2	14	Marshall Co.	Road No. 58			48.7	24.0		72.7
		14	Grundy Center	Butler Co.			10.0			
	3	58	Hardin Co.	Road No. 14			13.1		23.1	
		14	Road No. 58	Grundy Center			5.0			
	4	90	Grundy Center	Reinbeck			6.7			
		90	Reinbeck	Black Hawk Co.			8.5			
	5	57	Road No. 14	Black Hawk Co.			2.9		23.1	
							11.3		11.3	
Total							57.5			57.5
Guthrie	1	25	Guthrie Center	Adair Co.	14.9				14.9	
	2	7	Audubon Co.	Guthrie Center			12.4			
	3	7	Guthrie Center	Panora			6.5			
	4	32	Panora	Dallas Co.		3.6			22.5	
		32	Adair	Casey		6.6				
	5	32	Casey	Menlo		5.7				
		32	Menlo	Stuart		3.9				
	6	32	Stuart	Dallas Co.		3.4			19.6	
		25	Guthrie Center	Greene Co.	14.4		1.0		15.4	
Total					29.3	23.2	19.9			72.4
Hamilton	1	20	Webster Co.	Webster City			5.8			
	2	20	Webster Co.	Williams			14.4			
	3	15	Williams	Hardin Co.			2.0		22.2	
		15	Wright Co.	Road No. 20			6.1			
	4	15	Road No. 20	Jewell			10.1			
		60	Jewell	Story Co.			6.0		22.2	
	5	60	Boone Co.	Stanwood			5.0			
		60	Stanwood	Webster Co.			11.7		16.7	
	6	60	Road No. 20	Wright Co.			6.0		6.0	
Total							67.1			67.1

FINANCIAL STATEMENT

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IOWA STATE HIGHWAY COMMISSION

SCHEDULE NO. 13—PART I—Continued

County	Unit	Pri- mary Road No.	From	To	Condition November 30, 1928				Miles in Unit	Total Miles in Primary System
					Earth Road Not Built	Earth Road Built to Grade	Sur- faced Gravel or Rock	Paved		
Hancock	1	18	Cerro Gordo Co.	Garner				6.3		
		18	Garner	Kossuth Co.				18.0	24.3	
	2	15	Winnebago Co.	Road No. 18			10.5		10.5	
	3	15	Wright Co.	Goodell			0.7			
		15	Goodell	Garner			12.0		12.7	
Hardin	4	111	Road No. 18	Kanawha			10.4		10.4	
	Total						33.6	24.3		57.9
	1	65	Franklin Co.	Road No. 20						
	2	26	Iowa Falls	Ackley			2.4			
		65	Iowa Falls	Hubbard			10.5		12.9	
Harrison	3	65	Hubbard	Story Co.			6.5		22.7	
		58	Road No. 65	Grundy Co.			13.8			
		134	Road No. 58	Road No. 65			5.1			
		118	Road No. 58	State Park			0.4		19.3	
	4	20	Hamilton Co.	Iowa Falls			12.1		12.1	
Harrison	Total						67.0			67.0
	1	30	Pottawattamie Co.	Missouri Valley						
		30	Missouri Valley	Logan				3.1		
		30	Logan	Woodbine			1.1		6.9	
		30	Woodbine	Dunlap					6.9	
Harrison	2	30	Dunlap	Crawford Co.					0.3	
		75	Missouri Valley	Mondamin						
		75	Mondamin	River Sioux						
	3	75	River Sioux	Monona Co.						
		127	Logan	Magnolia					25.9	
Harrison		127	Magnolia	Road No. 75						
		39	Road No. 30	Shelby Co.					9.6	
	4	39	Shelby Co.	Portsmouth						
							1.8		11.8	
	Total							19.6	27.7	26.1	74.5

County	Section	Acres	Value	Improvements	Assessment	Notes
Henry	Jefferson Co.	24				
	Mt. Pleasant	34				
	New London	34				
	Road No. 34	129				
	Mt. Pleasant	161				
Howard	Olds	161				
	Lee Co.	161				
	Salem	125				
	Mt. Pleasant	133				
	Winfield	78				
Total			12.2	22.1	0.2	17.4
Howard	Mitchell Co.	9				
	Cresco	9				
	Minnesota	59				
	Line Springs	59				
	Road No. 9	59				
Humboldt	Chickasaw Co.	52				
	Elma					
	Cresco					
	Winnebick Co.					
	Line Springs					
Total			5.2		37.3	7.9
Humboldt	Pocahontas Co.	10				
	Dakota City	10				
	Humboldt	16				
	Road No. 10	16				
Total					12.1	12.1
Ida	Woodbury Co.	20				
	Galva	20				
	Road No. 20	131				
	Holstein	131				
	Cherokee Co.	21				
Ida	S. Jet, No. 20	21				
	Road No. 21	35				
	Ida Grove	35				
	Arthur	35				
	Woodbury Co.	35				
Total					43.0	43.0
Iowa	Keokuk Co.	149				
	Johnson Co.	32				
	Victor	32				
	Marengo	73				
	Road No. 22	150				
Total					4.7	4.7
Total			18.6	17.4	27.9	68.6

SCHEDULE NO. 13—PART I—Continued

County	Unit	Pri- mary Road No.	From	To	Condition November 30, 1928				Miles in Unit System	Total Miles in Primary System
					Earth Road Not Built	Earth Road Built to Grade	Sur- faced Gravel or Rock	Paved		
Jackson	1	61	Maquoketa	Hurstville			0.9			
	2	61	Hurstville	Dubuque Co.			14.6		15.5	
	3	117	Maquoketa	Sabula	22.4	4.9			27.3	
	4	117	Road No. 117	Bellevue		7.0		1.8	19.8	
	5	61	Maquoketa	Jones Co.			11.8		11.8	
Total				Clinton Co.				1.5	1.5	
Jasper	1	63	Polk Co.	Prairie City	22.4	11.9	38.3	3.3		75.9
	2	63	Prairie City	Monroe			5.0			
	3	63	Monroe	Marion Co.			9.9			
	4	64	Story Co.	Mingo			7.6		15.7	
	5	64	Mingo	Colfax			7.0			
	6	14	Marion Co.	Prairie City			4.5		19.1	
	7	14	Monroe	Newton			0.6			
	8	14	Newton	Marshall Co.		10.5	2.0			
	9	32	Poweshiek Co.	Marshall Co.			14.4		27.5	
	10	32	Newton	Colfax				15.2		
	11	32	Colfax	Polk Co.			5.3	4.2	30.2	
	12	146	Poweshiek Co.	Marshall Co.			4.0	5.5	4.0	
	13	34	Wapello Co.	Batavia		10.5	61.1	24.9		96.5
	14	34	Batavia	Fairfield			0.2	0.3		
	15	34	Fairfield	Lockridge				10.3	10.4	
Jefferson	1	34	Lockridge	Henry Co.				1.3	11.6	
	2	1	Fairfield	Pleasant Plain			5.2	8.8		
	3	1	Pleasant Plain	Washington Co.			0.6		18.2	
	4	77	Road No. 1	Richland			3.6	6.0	6.6	
	5	1	Van Buren Co.	Fairfield			0.2		0.2	
	6	1	Cedar Creek Bridge							
	7	1								
	8	1								
	9	1								
	10	1								
Total							9.8	37.2		47.0

Johnson	1	102	Road No. 32	Oxford						
	2	32	Iowa Co.	Muscatine Co.				1.0	25.8	
	3	161	Linn Co.	Iowa City				24.8	14.5	
	4	161	Washington Co.	Road No. 161			14.6		14.6	
	5	161	Washington Co.	Iowa City						
Jones	1	161	Gaps in paving north	Iowa City	3.0	6.7	0.8		10.5	
	2	161	Cedar Co.	Iowa City			7.7		7.7	
	3	139								
	4	161								
	5	161								
	6	161								
	7	161								
	8	161								
	9	161								
	10	161								
Keokuk	1	161	Linn Co.	Anamosa	3.0	6.7	23.1	40.3		73.1
	2	161	Anamosa	Monticello				4.8		
	3	161	Monticello	Cascade				9.9		
	4	153	Road No. 117	Oxford Junction	7.2	0.8	7.1		23.8	
	5	38	Cedar Co.	Jackson Co.			21.3		7.9	
	6	117	Anamosa	Delaware Co.				0.2	21.8	
	7	113	Monticello		3.6		0.3		4.1	
	8	161	Gaps in paving							
	9	161								
	10	161								
Kossuth	1	2	Mahaska Co.	Sigourney	10.8	0.8	23.7	24.0		64.3
	2	108	Road No. 2	Delta			10.1			
	3	85	Road No. 2	What Cheer			0.5			
	4	149	Sigourney	Washington Co.			3.7		14.3	
	5	149	Road No. 2	Webster				12.7	12.7	
	6	149	South English	South English						
	7	149	Webster	Iowa Co.						
	8	149	Wapello Co.	Road No. 149				1.0	16.4	
	9	149	Hedrick	Hedrick						
	10	149	Martinsburg	Martinsburg						
Kossuth	1	9	Keota	Hayesville	6.4	4.7	2.1			
	2	18	Keota	Sigourney	5.8	2.1				
	3	44	Keota	Richland	11.3		1.8		30.0	
	4	16	Keota						13.1	
	5	16	Keota							
	6	16	Keota							
	7	16	Keota							
	8	16	Keota							
	9	16	Keota							
	10	16	Keota							
Total							67.1	33.6		100.7

SCHEDULE NO. 13—PART I—Continued

County	Unit	Pri- mary Road No.	From	To	Condition November 30, 1928				Miles in Unit Primary System
					Earth Road Built	Earth Road Not Built	Sur- faced Gravel or Rock	Paved	
Lee	1	3	Van Buren Co.	Donnellson	8.7	0.2			
	2	3	Donnellson	Road No. 61	9.7				18.6
	3	103	Road No. 161	West Point	6.3				
	4	161	West Point	Ft. Madison	9.1				15.4
	5	161	Henry Co.	Donnellson		11.0			
Linn	1	30	Donnellson	Road No. 61		2.8		8.6	
	2	61	Road No. 161	Summitville				3.4	
	3	61	Road No. 161	Montrose				1.3	27.1
	4	61	Ft. Madison	Des Moines Co.			1.0	7.6	8.6
	5	61	Keokuk	Summitville				4.1	
Total			Montrose	Ft. Madison			8.8		12.9
Linn	1	30	Benton Co.	Cedar Co.	33.8	14.0	9.8	25.0	82.6
	2	161	Cedar Rapids	Johnson Co.			0.2	19.0	
	3	161	Marion	Kenwood Park				5.9	
	4	11	Road No. 161	Benton Co.			20.8	0.8	25.9
	5	161	Marion	Jones Co.			11.0		20.8
Louis	1	61	Marion	Road No. 30			5.9		16.9
	2	94	Road No. 30	Iowa Co.	4.1		7.7		11.8
	3	150	Delaware Co.	Road No. 161			22.5		22.5
	4	13	Des Moines Co.	Wapello	4.1		68.1	25.7	97.9
	5	76	Wapello	Grand View			7.0		
Total	1	61	Grand View	Muscatine Co.			8.1		
	2	61	Wapello	Columbus Junction			4.4		19.5
	3	76	Washington Co.	Columbus Junction		12.2	0.9		13.1
	4	2	Columbus Junction	Road No. 61	5.5	2.5			
	5	2	Columbus Junction	Muscatine Co.	3.5		7.9	1.3	17.2
Total					9.0	14.7	28.3	1.3	53.3

Lucas	1	34	Clarke Co.	Lucas	4.5				11.5
	2	34	Lucas	Chariton	5.0			2.0	
	3	97	Chariton	Monroe Co.				10.4	
	4	14	Road No. 34	Russell			1.0		11.4
	5	14	Chariton	Williamson	5.9				
Lyon	1	9	Williamson	Marion Co.					13.7
	2	9	Chariton	Wayne Co.	7.8				7.5
	3	18	Williamson	Warren Co.	10.6				10.6
	4	26	Chariton						
	5	75	Road No. 34						
Total					18.4	22.9	1.0	12.4	54.7
Madison	1	9	South Dakota	Larchwood			4.1		
	2	9	Larchwood	Rock Rapids			13.4		
	3	9	Rock Rapids	Oscola Co.			16.4		33.9
	4	18	South Dakota	Road No. 75			15.8		
	5	26	Sioux Co.	Doon			3.0		18.8
Mahaska	1	75	Sioux Co.	Rock Rapids			10.3		
	2	75	Doon	Minnesota			5.2		16.5
	3	75	Rock Rapids						
	4	75	Rock Rapids						
	5	75	Rock Rapids						
Total					69.2		69.2		69.2
Madison	1	16	Winterset	Dallas Co.			11.4		11.4
	2	16	Winterset	Union Co.	15.0	4.4			
	3	70	Road No. 16	Macksburg	6.5				20.2
	4	2	Adair Co.	Winterset			11.9		12.1
	5	2	Winterset	Warren Co.					11.9
Total					22.3	10.0	23.3		55.6
Mahaska	1	63	Marion Co.	Oskaloosa					
	2	59	Oskaloosa	Eddyville			4.6		12.8
	3	2	Oskaloosa	Rose Hill			5.2		3.6
	4	2	Rose Hill	Keokuk Co.			2.8		3.5
	5	63	Oskaloosa	Marion Co.	6.5	1.7			11.5
Total	1	63	Oskaloosa	Fremont					11.6
	2	63	Oskaloosa	Road No. 140					
	3	63	Fremont	Poweshiek Co.	9.3	7.7			14.5
	4	146	Oskaloosa	New Sharon					3.0
	5	146	Road No. 50	Poweshiek Co.	1.4	1.2			22.8
Total					17.2	25.9	12.6	27.7	81.4

IOWA STATE HIGHWAY COMMISSION

SCHEDULE NO. 13—PART I—Continued

County	Unit	Pri- mary Road No.	From	To	Condition November 30, 1928				Miles in Unit in Primary System	Total Miles in Primary System
					Earth Road Not Built	Earth Road Built to Grade	Sur- faced Gravel or Rock	Paved		
Marion	1	63	Jasper Co.	Pella			11.3			
	2	63	Pella	Mahaska Co.			1.8		13.1	
	2 & 6	2	Warren Co.	Pleasantville	3.7					
	2	6	Pleasantville	Knoxville		10.3				
	3	2	Warren Co.	Pleasantville		4.3			18.3	
	4	14	Knoxville	Mahaska	3.7	8.7			12.4	
	5	6	Knoxville	Jasper Co.			13.6		13.6	
		14	Knoxville	Monroe Co.		15.3				
		14	Knoxville	Lucas Co.	10.0	4.5				
		156	Road No. 6	Bussey	5.3				35.1	
Total 92.5										
Marshall	1	30	Tama Co.	Marshalltown						
		30	Marshalltown	State Center				9.8		
		30	State Center	Story Co.				11.8		
		14	Marshalltown	End of pavement S.				3.1		
		14	Marshalltown	End of pavement N.				1.5		
	2	14	Grundy Co.	End of pavement				1.3	27.5	
	3	14	Jasper Co.	Laurel			8.3		8.3	
		14	Laurel	End of pavement			4.0			
	4	185	Road No. 30	LeGrand			8.7		12.7	
		30	C. & N. W. R. R. crossing				0.2			
	30	M. & St. L. R. R. crossing				0.4				
	146	Jasper Co.	Gilman			0.2		0.8		
	146	Gilman	Road No. 30			0.8		7.3		
Total 29.1 27.5 56.6										

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SCHEDULE NO. 13—PART I—Continued

County	Unit	Pri- mary Road No.	From	To	Condition November 30, 1928				Miles in Unit Primary System	
					Earth Road Not Built	Earth Road Built to Grade	Sur- faced Gravel or Rock	Paved		
Montgomery	1	34	Mills Co.	Red Oak	0.8	7.0			7.8	
	2	34	Red Oak	Adams Co.				15.7		
	3	120	Road No. 34	Stanton	2.0				17.7	
	4	48	Page Co.	Road No. 34	6.8				6.8	
		71	Village	Road No. 34	2.1					
Total		71	Road No. 34	Cass Co.		7.5		5.1	14.7	
					11.7	14.5		20.8	47.0	
	Muscatine	1	61	Louisa Co.	Muscatine					
		2	61	Muscatine	Scott Co.		13.2	8.2		21.4
		3	92	Road No. 38	Blue Grass			17.0		17.0
		32	Johnson Co.	West Liberty			0.6	5.1		
		32	West Liberty	Wilton Junction			12.5	0.4		
Total	4	32	Wilton Junction	Durant			6.2		24.8	
		76	Louisa Co.	Conesville	2.0					
		76	Conesville	Nichols	6.7					
		76	Nichols	West Liberty		8.5			17.2	
		38	Muscatine	Cedar Co.		1.0	9.8		10.8	
O'Brien	1	18	Stout Co.	Sanborn	8.7	22.7	54.3	5.5	91.2	
	2	18	Sanborn	Clay Co.				9.0		
		10	Stout Co.	Paulina				13.3	22.3	
		10	Paulina	Sutherland			8.5			
		10	Sutherland	Clay Co.				10.0	25.3	
Total	3	21	Osceola Co.	Road No. 18			6.8			
		21	Road No. 18	Pringhar			5.0	6.3		
		21	Pringhar	Road No. 10				7.0		
		21	Road No. 10	Cherokee Co.			5.0		29.3	
							25.3	45.6	70.9	

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SCHEDULE NO. 13—PART I—Continued

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County	Unit	Primary Road No.	From	To	Condition November 30, 1928				Miles in Unit	Total Miles in Primary System
					Earth Road Not Built	Earth Road Built to Grade	Surfaced Gravel or Rock	Paved		
Polk	1	65	Story Co.	Ankeny						
		65	Ankeny	Des Moines				8.9		
		65	Des Moines	Warren Co.				5.8		
		28	Des Moines	Warren Co.				2.8		
		7	Dallas Co.	Grimes				5.0		
		7	Grimes	Johnston Station				0.8		
		6	Warren Co.	Des Moines				5.8		
		123	Road No. 28	Des Moines				4.8		
		32	Dallas Co.	Des Moines				1.5		
		60	Dallas Co.	Polk City				4.6		
	2	60	Polk City	Des Moines				7.7		
		132	Road No. 7	Urbandale				11.6		
		87	Road No. 65	Elkhart				0.1	59.4	
		88	Road No. 32	Bondurant			3.5			
	3	155	Road No. 65	State Park			2.0			
		63	Jasper Co.	Des Moines	6.0					11.5
		32	Des Moines	Altoona				9.1		
		32	Altoona	Jasper Co.				2.7		
	4	126	Road No. 32	Mitchellville				6.2		
		89	Des Moines	Camp Dodge				0.6	18.6	
		32	R. R. crossing	Nobleton				4.9	4.9	
		32	R. R. crossing	Altoona			0.3			
	5	63	R. R. crossing	Christy				0.3	0.9	
								0.3		
Total					6.0		5.8	83.5		95.3

IOWA STATE HIGHWAY COMMISSION

Pottawattamie	1	39	Harrison Co.	Council Bluffs				16.9		
		34	Council Bluffs	Mills Co.				6.3	23.8	
	2	7	Council Bluffs	Underwood		10.6	0.6			
		7	Underwood	Neola		4.8				
		7	Neola	Minden	4.1					
	3	7	Minden	Avoca	10.3				29.8	
		32	Council Bluffs	Oakland		24.0				
		32	Oakland	Cass Co.	7.9	4.0			35.9	
	4	4	Mills Co.	Carson	5.1					
		4	Carson	Hancock	9.6					
	4	4	Hancock	Avoca	6.5					
		83	Avoca	Walnut	5.7				26.9	
	5	86	Council Bluffs	Lake Manawa	(Withdrawn from primary road system. Mileage not included in totals.)			1.3		
Total					49.2	43.4	0.6	23.2		116.4
Poweshiek	1	146	Mahaska Co.	Searsboro	7.0					
		146	Searsboro	Grinnell	1.6	9.5				
		146	Grinnell	Jasper Co.			6.5		24.6	
	2	32	Jasper Co.	Grinnell				2.0		
		32	Grinnell	Brooklyn				13.9		
		32	Brooklyn	Iowa Co.			2.7	5.3	23.9	
	3	59	Tama Co.	Road No. 32			8.4			
		59	Road No. 32	Malcom			1.3			
		59	Malcom	Montezuma			8.8			
		59	Montezuma	Mahaska Co.			5.2		23.7	
Total					8.6	9.5	32.9	21.2		72.2
Ringgold	1	3	Taylor Co.	Benton		6.9				
		3	Benton	Mt. Ayr			5.7		12.6	
	2	16	Missouri	Redding	1.8	0.3				
		16	Redding	Mt. Ayr	10.9	3.0			16.0	
	3	13	Mt. Ayr	Union Co.			12.4		12.4	
	4	3	Mt. Ayr	Kellerton	0.3	9.1				
		3	Kellerton	Decatur Co.		1.9			11.2	
Total					12.9	21.2	18.1			52.2

FINANCIAL STATEMENT

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SCHEDULE NO. 13—PART I—Continued

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IOWA STATE HIGHWAY COMMISSION

County	Unit	Primary Road No.	From	To	Condition November 30, 1928				Miles in Unit	Total Miles in Primary System
					Earth Road Not Built	Earth Road Built to Grade	Sur-faced Gravel or Rock	Paved		
Union	1	34	Adams Co.	Creston		6.9				
	2	34	Creston	Afton		8.1			15.0	
	3	34	Afton	Clarke Co.		4.9	4.4		9.3	
	4	25	Creston	Adair Co.		8.3			8.3	
	5	16	Ringgold Co.	Arispe		3.2				
Total			Arispe	Afton		5.0			8.2	
			Afton	Madison Co.	10.4				10.4	
					10.4	36.4	4.4			51.2
Van Buren	1	1	Jefferson Co.	Birmingham			1.0			
	2	1	Birmingham	Keosauqua			9.8		10.8	
	3	23	Keosauqua	Road No. 3				3.7	3.7	
	3 & 23		Missouri	Road No. 3	4.8					
	3	3	Milton	Cantril				4.3		
	4	3	Cantril	Road No. 1				7.3	16.4	
		3	Road No. 1	Farmington	1.2	11.1				
		3	Farmington	Lee Co.		1.1				
Total			Road No. 3	Bonaparte		1.0		0.4		
			Road No. 3	Missouri	2.4				17.2	
					8.4	13.2	10.8	15.7		48.1
Wapello	1	63	Mahaska Co.	Ottumwa				8.6	8.6	
	2	63	Ottumwa	Davis Co.		7.4			7.4	
	3	34	Monroe Co.	Ottumwa				11.6	11.6	
	4	34	Ottumwa	Agency				3.8		
	5	34	Agency	Jefferson Co.				6.3	10.1	
Total			Road No. 34	Eldon		5.4			5.4	
						12.8		30.3		43.1

Warren	1	2	Madison Co.	Martensdale			2.1			
		28	Martensdale	Norwalk			7.7			
		28	Norwalk	Polk Co.			2.2		12.0	
	2	137	Road No. 65	Lucas Co.	8.1	3.9				
		65	Road No. 137	Clarke Co.				10.5	22.5	
	3	6	Polk Co.	Carlisle		0.1	1.1			
		6	Carlisle	Marion Co.		9.5				
		158	Road No. 6	Carlisle			0.1		10.8	
	4	65	Road No. 137	Indianola				4.8		
		65	Indianola	Polk Co.			9.8		14.6	
Total			Martensdale	Indianola	10.5					
			Indianola	Ackworth	3.5					
			Ackworth	Sandyville	4.1					
			Sandyville	Marion Co.	2.8				20.9	
					29.0	13.5	23.0	15.3		80.8
Washington	1	2	Keokuk Co.	Washington		0.9		14.4		
		2	Washington	Ainsworth		6.3				
		2	Ainsworth	Louisa Co.		3.3			24.9	
	2	1	Johnson Co.	Kalona			1.5			
		1	Kalona	Washington			12.5	0.5	14.5	
	3	1	Washington	Brighton			10.1			
		1	Brighton	Jefferson Co.			2.0		12.1	
	4	161	Johnson Co.	Riverside	2.7					
		161	Riverside	Ainsworth	13.9					
		161	Ainsworth	Crawfordsville	5.1					
Total			Crawfordsville	Henry Co.	3.6				25.3	
			Road No. 1	Wellman	9.5				9.5	
					34.8	10.5	26.1	14.9		86.3
Wayne	1	3	Decatur Co.	Corydon		12.6				
		40	Road No. 3	Allerton			2.9		15.5	
	2	14	Lucas Co.	Corydon		9.3			9.3	
		65	Road No. 3	Lineville	10.7	1.0			11.7	
	4	66	Roads No. 65 and No. 3	Humeston	6.5				6.5	
	5	3	Corydon	Promise City		8.6				
		3	Promise City	Appanoose Co.		2.5				
Total			Road No. 3	Seymour			3.8		14.9	
					17.2	34.0	6.7			57.9

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IOWA STATE HIGHWAY COMMISSION

SCHEDULE NO. 13—PART I—Continued

County	Unit	Pri- mary Road No.	From	To	Condition November 30, 1928				Miles in Unit	Total Miles in Primary System
					Earth Road Not Built	Earth Road Built to Grade	Sur- faced Gravel or Rock	Paved		
Webster	1	5	Calhoun Co.	Ft. Dodge			13.0		13.0	
	2	30	Calhoun Co.	Hamilton Co.			25.0		25.0	
	3	16	Ft. Dodge	Humboldt Co.			9.5		9.5	
	4	16	Ft. Dodge	Road No. 47			14.3		14.3	
	5	16	Boone Co.	Road No. 47			9.0			
		47	Road No. 16	Gowrie			4.5			
		144	Road No. 47	Greene Co.			5.0			
		91	Road No. 16	Dayton			2.0			
		50	Road No. 16	Lehigh			6.5			
		121	Road No. 50	Dolliver Park			9.5		27.5	
	Total						89.3		89.3	
Winnebago	1	9	Kossuth Co.	Buffalo Center			1.0			
	2	9	Buffalo Center	Forest City			20.3		21.3	
	3	15	Hancock Co.	Worth Co.			6.5		6.5	
		15	Lake Mills	Lake Mills			14.1			
		105	Lake Mills	Minnesota			6.3			
				Worth Co.			1.1		21.5	
	Total						49.3		49.3	
Winneshek	1	55	Allamakee Co.	Calmar		0.4				
		55	Calmar	Road No. 9				13.0		
	2	130	Road No. 9	Minnesota	11.8		0.8	7.9		
	3	55	Decorah	Minnesota	7.0		0.4			
	4	9	Howard Co.	Decorah			15.1			
		9	Decorah	Winneshek Co.			10.5			
	5	11	Fayette Co.	Calmar	7.3					
		24	Chickasaw Co.	Calmar	13.0				20.3	
	Total				39.1	0.4	34.9	39.9		94.6

1	2	3	4	5	Total
W. odbury	Sioux City	Sioux City	Sioux City	Sioux City	113.1
	Correctionville	Correctionville	Correctionville	Correctionville	
2	Ida Co.	Ida Co.	Ida Co.	Ida Co.	
3	Smithland	Smithland	Smithland	Smithland	
4	Monona Co.	Monona Co.	Monona Co.	Monona Co.	
	Salix	Salix	Salix	Salix	
	Sloan	Sloan	Sloan	Sloan	
	Monona Co.	Monona Co.	Monona Co.	Monona Co.	
	Oto	Oto	Oto	Oto	
	Antho	Antho	Antho	Antho	
	Road No. 20	Road No. 20	Road No. 20	Road No. 20	
	Ida Co.	Ida Co.	Ida Co.	Ida Co.	
	Cherokee Co.	Cherokee Co.	Cherokee Co.	Cherokee Co.	
	Plymouth Co.	Plymouth Co.	Plymouth Co.	Plymouth Co.	
	Northwood	Northwood	Northwood	Northwood	
	Manly	Manly	Manly	Manly	
	Cerro Gordo Co.	Cerro Gordo Co.	Cerro Gordo Co.	Cerro Gordo Co.	
	Northwood	Northwood	Northwood	Northwood	
	Mitchell Co.	Mitchell Co.	Mitchell Co.	Mitchell Co.	
	Manly	Manly	Manly	Manly	
	Winnabago Co.	Winnabago Co.	Winnabago Co.	Winnabago Co.	
	Goldfield	Goldfield	Goldfield	Goldfield	
	Clarion	Clarion	Clarion	Clarion	
	Rowan	Rowan	Rowan	Rowan	
	Franklin Co.	Franklin Co.	Franklin Co.	Franklin Co.	
	Road No. 10	Road No. 10	Road No. 10	Road No. 10	
	Hamilton Co.	Hamilton Co.	Hamilton Co.	Hamilton Co.	
	Dows	Dows	Dows	Dows	
	Eagle Grove	Eagle Grove	Eagle Grove	Eagle Grove	
	Hamilton Co.	Hamilton Co.	Hamilton Co.	Hamilton Co.	
Total					60.0
Wright	Humboldt Co.	Humboldt Co.	Humboldt Co.	Humboldt Co.	
	Goldfield	Goldfield	Goldfield	Goldfield	
	Clarion	Clarion	Clarion	Clarion	
	Rowan	Rowan	Rowan	Rowan	
	Hancock Co.	Hancock Co.	Hancock Co.	Hancock Co.	
	Road No. 10	Road No. 10	Road No. 10	Road No. 10	
	Road No. 15	Road No. 15	Road No. 15	Road No. 15	
	Goldfield	Goldfield	Goldfield	Goldfield	
	Eagle Grove	Eagle Grove	Eagle Grove	Eagle Grove	
Total					60.0
Worth	Minnesota	Minnesota	Minnesota	Minnesota	
	Northwood	Northwood	Northwood	Northwood	
	Manly	Manly	Manly	Manly	
	Winnabago Co.	Winnabago Co.	Winnabago Co.	Winnabago Co.	
	Northwood	Northwood	Northwood	Northwood	
	Mitchell Co.	Mitchell Co.	Mitchell Co.	Mitchell Co.	
	Manly	Manly	Manly	Manly	
	Winnabago Co.	Winnabago Co.	Winnabago Co.	Winnabago Co.	
Total					60.0
Grand total					60.0

SCHEDULE NO. 13—PART H

STATEMENT SHOWING EXPENDITURES FOR MAINTENANCE PROPER AND BETTERMENTS BY COUNTIES AND UNITS,
PRIMARY ROAD, DECEMBER 1, 1927 TO NOVEMBER 30, 1928.

(See Schedule No. 13, Part 1, for Description of Maintenance Units.)

County	Unit	Mile- age	Class- ifica- tion	Maintenance Proper			Betterments			Total Maintenance Proper and Betterments	Average Per Mile
				Surface	Road Bed	Structures	Snow Removal	Surface	Road Bed	Structures	
Adair	1	14.9	E	\$ 5,729.71	\$ 883.95	\$ 713.27	\$ 829.72			\$ 149.07	\$ 557
	2	16.5	E	4,322.99	936.55	167.88	555.69			31.38	381
	3	12.5	E	6,060.93	919.66	133.21	459.62			117.16	617
	4	12.2	G	3,654.03	617.49	708.75	515.50			23.30	458
Total		56.1		\$ 19,767.66	\$ 3,357.65	\$ 1,723.11	\$ 2,360.53	\$ 96.38	\$ 269.40	\$ 320.91	\$ 497
Adams	1	10.3	E	\$ 2,512.31	\$ 1,069.04	\$ 883.80	\$ 17.55			\$ 2.49	\$ 431
	2	14.0	E	2,823.55	1,760.88	1,451.97	21.50			3.56	433
	3	6.1	E	1,534.58	629.79	143.40	11.15			1.42	380
	4	6.7	E	1,293.62	95.70	72.37	1.90			1.43	219
Total		37.1		\$ 8,164.06	\$ 3,555.41	\$ 2,501.54	\$ 52.10			\$ 8.90	\$ 385
Allamakee	1	7.8	G	\$ 831.64	\$ 403.41	\$ 81.84	\$ 403.55			\$ 43.63	\$ 226
	2	16.7	G	1,041.91	1,690.01	107.02	854.19			62.35	225
	3	21.5	E	4,477.40	1,367.42	416.74	990.78			7,314.90	340
	4	17.4	G	4,971.79	1,546.91	97.71	552.44			58.55	415
	5	20.4	E	5,090.58	1,549.63	373.95	843.80			63.87	418
Total		83.8		\$ 17,013.32	\$ 6,557.38	\$ 1,977.26	\$ 3,644.76			\$ 290.96	\$ 341
Appanoose	1	8.3	M	\$ 2,030.82	\$ 463.95	\$ 429.47	\$ 285.25			\$ 12.05	\$ 389
	2	13.7	E	7,683.24	689.93	—44.47	392.63			16.05	676
	3	8.9	E	3,656.87	681.93	863.14	268.73			14.05	618
	4	16.8	M	3,507.37	727.20	388.85	268.71			19.05	293
	5	13.3	P	712.17	1,070.16	168.54	438.52			23.25	213
Total		61.0		\$ 17,590.47	\$ 3,633.17	\$ 1,805.53	\$ 1,633.84	\$ 404.18	\$ 79.58	\$ 84.45	\$ 415

FINANCIAL STATEMENT

Audubon	1	19.7	E	\$ 5,703.89	\$ 695.72	\$ 1,230.88	\$ 1,065.72			\$ 17.56	\$ 814
	2	8.5	E	2,780.54	924.21	478.18	510.43			193.82	576
	3	13.2	E	4,581.21	1,639.69	—231.29	292.29			118.38	481
	4	12.2	E	5,190.50	1,181.13	312.10	216.64			12.35	567
Total		44.6		\$ 18,265.14	\$ 4,440.75	\$ 1,739.87	\$ 2,085.08			\$ 342.12	\$ 603
Benton	1	13.3	M	\$ 7,411.96	\$ 890.70	\$ 642.53	\$ 1,893.02			\$ 68.50	\$ 824
	2	17.6	M	7,319.49	2,588.93	386.50	964.20			102.27	889
	3	23.4	P	798.23	802.23	498.49	140.30			5.25	959
	4	28.6	P	3,187.70	2,434.68	504.86	1,763.92			85.91	284
	5	3.7	G	1,789.50	284.80	203.90	42.35			7.02	629
Total		86.6		\$ 20,506.88	\$ 7,001.34	\$ 2,236.33	\$ 4,803.79			\$ 208.95	\$ 413
Black Hawk	1	53.3	P	\$ 4,291.13	\$ 4,834.13	\$ 1,325.37	\$ 3,880.92			\$ 226.94	\$ 274
	2	11.1	G	9,632.65	608.27	314.20	217.88			26.72	981
	3	6.0	G	1,700.36	144.87	109.75	118.51			59.81	356
	4	7.9	G	5,496.66	395.42	76.10	177.61			154.05	707
Total		78.3		\$ 21,120.80	\$ 6,072.69	\$ 1,825.42	\$ 4,394.92			\$ 467.52	\$ 433
Boone	1	24.0	G	\$ 13,318.93	\$ 1,351.01	\$ 2,059.44	\$ 796.52			\$ 212.57	\$ 765
	2	8.0	G	2,483.19	251.50	122.05	489.14			3.50	416
	3	24.3	G	10,955.26	936.34	1,378.94	311.03			330.91	571
	4	26.3	G	11,280.20	882.79	1,130.74	793.87			66.86	538
Total		82.6		\$ 37,937.58	\$ 3,391.64	\$ 4,691.17	\$ 2,370.56			\$ 613.84	\$ 602
Bremer	1	31.1	P	\$ 6,189.67	\$ 1,127.19	\$ 402.72	\$ 1,635.22			\$ 51.12	\$ 302
	2	16.8	G	7,278.46	1,141.86	488.83	2,062.36			50.34	655
	3	14.3	E	6,087.01	830.70	460.67	2,147.69			46.59	670
	4	14.4	M	4,414.90	654.66	253.33	1,707.53			29.06	491
Total		76.6		\$ 23,970.04	\$ 3,754.41	\$ 1,616.55	\$ 7,542.80			\$ 177.11	\$ 484
Buchanan	1	24.3	P	\$ 5,549.65	\$ 2,111.23	\$ 432.29	\$ 2,413.60			\$ 101.06	\$ 437
	2	12.5	G	3,989.53	434.31	562.34	760.44			22.35	461
	3	11.3	G	6,132.07	633.87	194.82	734.28			—0.43	652
Total		48.1		\$ 15,671.25	\$ 3,179.41	\$ 1,189.35	\$ 3,908.32			\$ —0.89	\$ 501

SCHEDULE NO. 13—PART II—Continued

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County	Unit	Mileage	Classification	Maintenance Proper				Betterments			Total Maintenance Proper and Betterments	Average Per Mile
				Surface	Road Bed	Structures	Snow Removal	Surface	Road Bed	Structures		
Buena Vista	1	9.5	G	\$ 4,942.14	\$ 312.33	\$ 364.00	\$ 905.53			\$ 692.99	\$ 7,216.99	\$ 660
	2	20.8	G	8,766.69	855.79	290.00	2,131.99			368.18	12,412.74	597
	3	21.8	G	4,165.01	918.18	222.27	1,437.45			376.32	7,119.23	327
	4	21.0	G	9,878.51	812.96	319.12	2,384.10			507.94	13,902.63	662
Total		73.1		\$ 27,752.35	\$ 2,899.26	\$ 1,195.48	\$ 6,859.07			\$ 1,945.43	\$ 40,651.59	\$ 556
Butler	1	25.9	G	\$ 7,224.29	\$ 1,052.19	\$ 1,572.34	\$ 1,554.70			\$ 25.00	\$ 11,428.52	\$ 441
	2	29.3	M	11,362.65	1,846.10	1,219.25	2,125.76	\$ 199.11		10.45	16,744.12	572
	3	28.0	G	7,441.78	1,113.49	2,000.93	1,429.03			78.25	12,063.48	431
Total		83.2		\$ 26,028.72	\$ 3,961.78	\$ 4,792.52	\$ 5,110.29	\$ 199.11		\$ 113.70	\$ 40,236.12	\$ 484
Calhoun	1	12.5	G	\$ 8,789.73	\$ 356.17	\$ 41.23	\$ 1,461.00			\$ 81.16	\$ 10,759.29	\$ 861
	2	25.8	G	14,626.09	694.56	167.97	2,482.82			28.02	17,909.46	698
	3	12.7	G	4,693.79	327.52	118.96	921.83			14.98	6,077.08	479
	4	29.8	G	12,190.91	967.86	149.65	2,254.36			34.94	15,597.72	523
Total		80.8		\$ 40,300.52	\$ 2,376.11	\$ 477.81	\$ 7,150.01			\$ 159.10	\$ 50,433.55	\$ 624
Carroll	1	25.2	G	\$ 8,646.24	\$ 823.33	\$ 666.97	\$ 4,033.06				\$ 14,169.60	\$ 562
	2	23.8	G	9,946.33	614.67	477.31	4,113.71	\$ 2.00	\$ 1.25	93.23	15,248.50	641
	3	26.4	G	11,708.65	510.70	417.06	3,605.92	10.00	2.70	1.91	16,256.94	616
Total		75.4		\$ 30,301.22	\$ 1,948.70	\$ 1,561.34	\$ 11,752.69	\$ 12.00	\$ 3.95	\$ 95.14	\$ 45,675.04	\$ 606
Cass	1	29.9	E	\$ 9,918.54	\$ 3,551.87	\$ 839.21	\$ 837.05			\$ 38.78	\$ 15,185.45	\$ 508
	2	23.9	E	8,389.96	2,798.09	157.06	237.38			9.35	11,591.84	485
	3	28.8	E	5,438.84	993.23	726.31	762.77			24.10	7,945.25	276
Total		82.6		\$ 23,747.34	\$ 7,343.19	\$ 1,722.58	\$ 1,837.20			\$ 72.23	\$ 34,722.54	\$ 420
Cedar	1	26.7	P	\$ 1,219.94	\$ 3,055.03	\$ 458.29	\$ 2,293.15			\$ 442.10	\$ 7,468.51	\$ 280
	2	27.9	M	7,498.70	2,756.40	732.42	1,507.07			151.30	12,685.89	455
	3	11.5	G	3,651.15	1,390.44	2,391.33	260.86			37.50	7,731.27	672
	4	14.1	G	7,142.28	674.13	377.81	450.57				8,644.29	613
Total		80.2		\$ 19,512.07	\$ 7,916.00	\$ 3,039.34	\$ 4,511.65			\$ 630.90	\$ 36,529.96	\$ 455

IOWA STATE HIGHWAY COMMISSION

Cerro Gordo	1	35.3	P	\$ 2,840.70	\$ 1,489.13	\$ 724.89	\$ 5,931.22					
	2	5.4	G	2,988.65	173.16	15.45	626.49			\$ 113.02	\$ 11,068.96	\$ 314
	3	12.9	G	2,450.02	419.55	76.54	529.55			50.90	3,854.65	714
	4	3.2	G	1,543.23	24.60	43.75	182.23	\$ 2.80		221.55	3,700.01	287
Total		56.8		\$ 9,822.60	\$ 2,106.44	\$ 860.63	\$ 7,269.49				\$ 1,793.81	\$ 560
Cherokee	1	31.0	G	\$ 15,814.71	\$ 1,470.17	\$ 469.59	\$ 3,023.58	\$ 2.80		\$ 385.47	\$ 20,447.43	\$ 360
	2	26.8	G	8,271.12	1,824.50	1,740.00	1,339.39	\$ 3.95		\$ 41.81	\$ 20,823.81	\$ 672
	3	13.0	G	4,574.61	1,980.12	2,212.81	611.18			8.30	13,183.31	492
	4	10.5	G	3,361.46	241.35	46.92	326.62			4.45	9,383.17	722
Total		81.3		\$ 32,021.90	\$ 5,516.14	\$ 4,469.32	\$ 5,300.77	\$ 3.95		\$ 54.16	\$ 47,366.24	\$ 583
Chickasaw	1	12.2	G	\$ 6,653.77	\$ 640.72	\$ 275.25	\$ 1,181.79	\$ -73.03	\$ 1.50	\$ -101.33	\$ 8,578.67	\$ 708
	2	4.4	P	716.88	252.84	66.05	123.14			1.05	1,084.41	246
	3	21.5	M	8,105.67	339.57	1,548.18	1,735.87			-75.55	11,786.19	548
	4	12.0	G	5,723.40	157.01	234.35	927.56			29.60	6,942.89	578
	5	16.3	M				69.36	\$ -90.43	27.30		69.36	426
Total		66.4		\$ 21,199.72	\$ 1,390.14	\$ 2,123.83	\$ 4,037.72	\$ -172.46	\$ 29.85	\$ -147.28	\$ 28,461.52	\$ 429
Clarke	1	14.2	E	\$ 6,049.34	\$ 2,832.48	\$ 523.95	\$ 712.74				\$ 10,155.03	\$ 715
	2	12.1	E	3,411.46	2,426.34	412.94	649.57			36.52	6,960.97	575
	3	12.1	P	5,475.87	935.46	283.30	528.23			60.66	7,256.09	600
	4	9.1	E	2,838.23	981.60	315.65	321.84			33.23	4,482.03	493
Total		47.5		\$ 17,774.90	\$ 7,175.88	\$ 1,535.84	\$ 2,212.38			\$ 24.71	\$ 28,854.12	\$ 607
Clay	1	7.4	G	\$ 1,122.58	\$ 850.97	\$ 568.10	\$ 612.00			\$ 155.12	\$ 3,511.99	\$ 474
	2	7.3	G	3,590.75	125.72	49.42	734.11			23.94	4,523.94	620
	3	25.8	G	16,255.10	841.30	656.70	3,758.46			117.66	22,290.64	864
	4	16.9	G	3,277.72	417.43	304.62	2,266.84	\$ 662.42		-116.89	6,149.72	364
Total		57.4		\$ 24,246.15	\$ 2,235.42	\$ 1,577.84	\$ 7,371.41	\$ 662.42		\$ 383.05	\$ 36,476.29	\$ 635
Clayton	1	18.3	P	\$ 2,684.32	\$ 880.57	\$ 97.96	\$ 1,950.55				\$ 5,826.84	\$ 318
	2	7.9	M	1,976.21	-160.88	-64.48	1,513.64			206.94	3,295.89	417
	3	24.1	E	5,826.60	1,068.55	218.36	2,040.42			40.40	9,269.21	385
	4	11.1	E	2,953.04	431.14	22.38	2,069.76			105.28	5,577.13	502
	5	52.8	G	11,667.62	2,037.10	531.42	5,978.98			100.81	19,949.27	378
Total		114.2		\$ 24,817.99	\$ 4,247.78	\$ 805.64	\$ 13,553.35			\$ 34.15	\$ 43,912.34	\$ 384

FINANCIAL STATEMENT

SCHEDULE NO. 13—PART II—Continued

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IOWA STATE HIGHWAY COMMISSION

County	Unit	Mileage	Classification	Maintenance Proper				Betterments			Total Maintenance Proper and Betterments	Average Per Mile
				Surface	Road Bed	Structures	Snow Removal	Surface	Road Bed	Structures		
Clinton	1	36.4	P	\$ 2,018.22	\$ 3,043.51	\$ 781.28	\$ 479.74	\$ 53.82		\$ 98.50	\$ 6,475.07	\$ 178
	2	9.4	P	473.71	2,407.11	307.96	30.23	150.14	\$ 60.43	35.23	3,464.81	369
	3	18.9	P	3,360.23	1,756.17	316.99	302.43	253.50	21.80	10.05	6,021.17	319
	4	11.9	E	3,820.09	1,050.91	220.56	151.02	351.63	5.00	11.93	5,611.14	472
	5	17.2	P	737.91	969.18	362.73	280.60	4.50		88.20	2,443.12	142
Total		93.8		\$ 10,410.16	\$ 9,226.88	\$ 1,989.52	\$ 1,244.02	\$ 813.59	\$ 87.23	\$ 243.91	\$ 24,015.31	\$ 256
Crawford	1	24.7	M	\$ 2,543.71	\$ 2,868.37	\$ 55.34	\$ 1,060.53	\$ 202.58		\$ 43.45	\$ 6,773.98	\$ 274
	2	31.1	G	9,924.57	3,415.11	674.75	399.95			76.87	14,401.25	466
	3	13.8	G	5,835.00	1,731.87	401.99	448.71			12.59	8,433.16	611
	4	20.6	M	2,881.87	1,964.15	384.00	1,462.43			19.60	6,712.05	326
	5	5.9	E	1,217.00	1,077.29	173.29	464.97			1.50	2,934.05	497
Total		96.1		\$ 22,405.15	\$ 11,056.79	\$ 1,689.37	\$ 3,836.59	\$ 202.58		\$ 154.01	\$ 39,344.49	\$ 409
Dallas	1	8.6	E	\$ 3,533.13	\$ 625.93	\$ 248.43	\$ 618.09			\$ 177.25	\$ 5,202.83	\$ 605
	2	24.7	G	7,208.88	1,016.90	850.24	1,120.31			365.03	10,561.36	428
	3	30.3	G	18,133.32	1,594.39	820.51	1,878.05			486.45	22,912.72	736
	4	26.8	G	9,549.47	945.40	222.33	1,154.17			285.02	12,156.39	454
Total		90.4		\$ 38,424.80	\$ 4,182.62	\$ 2,141.51	\$ 4,770.62			\$ 1,313.75	\$ 50,833.30	\$ 562
Davis	1	12.2	E	\$ 3,582.34	\$ 962.57	\$ 202.61	\$ 91.68			\$ 45.65	\$ 4,884.85	\$ 400
	2	14.8	P	5,733.32	795.05	388.75	99.68			154.33	7,171.13	485
	3	10.3	G	3,428.22	1,328.46	527.16	56.81		\$ 329.38	41.27	5,711.30	554
	4	10.9	E	5,626.41	728.85	131.90	59.00			45.48	6,591.64	605
Total		48.2		\$ 18,370.29	\$ 3,814.93	\$ 1,250.42	\$ 307.17		\$ 329.38	\$ 286.73	\$ 24,358.92	\$ 505
Decatur	1	15.6	E	\$ 4,216.00	\$ 1,561.40	\$ 1,238.44	\$ 533.25			\$ 45.22	\$ 7,594.31	\$ 487
	2	10.2	E	5,291.05	1,300.87	762.88	443.22			29.41	7,827.43	767
	3	10.8	E	3,468.78	743.12	162.89	304.83			29.34	4,708.96	436
	4	18.9	M	2,870.85	1,365.61	324.51	494.81			43.61	5,069.39	270
Total		55.5		\$ 15,846.68	\$ 4,971.00	\$ 2,488.72	\$ 1,776.11			\$ 147.58	\$ 25,230.09	\$ 455

Delaware	1	23.5	P	\$ 11,769.66	\$ 1,057.27	\$ 776.78	\$ 1,286.15			\$ 583.34	\$ 15,473.20	\$ 658
	2	1.6	E	497.79	23.68	60.88	215.99			179.62	983.96	614
	3	26.0	G	8,760.02	1,270.84	804.21	1,314.47	\$ 1,745.55		584.15	14,479.24	557
	4	18.2	M	3,005.09	727.84	296.12	582.98			864.40	5,476.43	301
Total		69.3		\$ 24,032.56	\$ 3,079.63	\$ 1,943.99	\$ 3,399.59	\$ 1,745.55		\$ 2,211.51	\$ 36,412.83	\$ 525
Des Moines	1	17.6	P	\$ 367.44	\$ 1,619.71	\$ 462.45	\$ 70.55				\$ 2,520.15	\$ 143
	2	13.1	P	142.14	575.45	22.24	2.90	\$ 334.17	\$ 130.00	\$ 15.00	937.62	72
	3	6.6	P	2,107.54	2,002.21	410.75	21.00	975.58	131.75	170.73	5,819.56	882
	4	2.9	G	5,876.74	885.51	325.83	65.08				7,153.16	2,467
Total		40.2		\$ 8,209.58	\$ 5,082.88	\$ 1,221.27	\$ 159.53	\$ 1,309.75	\$ 261.75	\$ 185.73	\$ 16,430.49	\$ 409
Dickinson	1	26.4	G	\$ 14,493.28	\$ 1,424.55	\$ 499.38	\$ 5,161.83			\$ 267.61	\$ 21,846.65	\$ 828
	2	5.0	P	373.44	263.96	76.50	1,014.89			10.00	1,738.79	348
	3	8.4	G	4,448.98	217.80	104.45	1,747.80			575.00	7,094.09	845
	4	9.0	G	7,861.13	364.78	269.95	1,729.28			126.28	10,351.42	1,151
Total		48.8		\$ 27,176.83	\$ 2,271.09	\$ 950.28	\$ 9,653.80			\$ 978.89	\$ 41,030.95	\$ 841
Dubuque	1	18.7	P	\$ 3,199.53	\$ 803.96	\$ 14.99	\$ 874.13			\$ 864.56	\$ 5,757.17	\$ 308
	2	23.8	P	7,734.44	990.32	462.18	1,035.85			34.31	10,257.10	431
	3	21.6	G	9,328.19	791.39	401.83	808.36			99.66	11,429.43	529
	4	13.1	M	5,992.69	879.14	211.90	789.07			100.12	7,966.92	608
	5	8.2	M	5,137.87	599.77	215.95	547.20			229.91	6,730.70	821
Total		85.4		\$ 31,392.72	\$ 4,064.58	\$ 1,306.85	\$ 4,048.61			\$ 1,328.56	\$ 42,741.32	\$ 493
Emmet	1	24.7	G	\$ 15,186.57	\$ 4,142.98	\$ 230.89	\$ 4,252.06			\$ 142.30	\$ 24,068.61	\$ 976
	2	8.3	G	5,673.33	635.93	56.12	1,262.74			66.69	7,694.81	927
	3	11.7	G	5,176.20	1,613.43	82.36	1,634.11			130.18	8,667.78	741
Total		44.7		\$ 26,036.10	\$ 6,392.34	\$ 369.37	\$ 7,148.91			\$ 31.50	\$ 32,842.76	\$ 741
Fayette	1	24.7	P	\$ 6,506.33	\$ 346.32	\$ 407.15	\$ 1,506.82			\$ 19.70	\$ 8,878.32	\$ 359
	2	32.6	G	8,631.55	682.45	270.48	2,296.41			146.16	12,024.05	369
	3	24.2	G	8,126.35	453.20	138.25	1,247.07			72.51	10,037.38	415
	4	12.4	G	4,958.58	365.70	120.05	2,015.25			80.13	7,539.71	608
	5	20.6	M	6,132.02	636.89	219.08	1,145.81			87.96	8,221.76	399
Total		114.5		\$ 34,446.83	\$ 2,484.56	\$ 1,155.01	\$ 8,208.36			\$ 406.46	\$ 46,701.22	\$ 406

FINANCIAL STATEMENT

SCHEDULE NO. 13—PART II—Continued

County	Unit	Mile- age	Class- ifica- tion	Maintenance Proper				Betterments			Total Maintenance Proper and Betterments	Average Per Mile
				Surface	Road Bed	Structures	Snow Removal	Surface	Road Bed	Structures		
Floyd	1	30.1	P	\$ 4,148.58	\$ 1,505.85	\$ 1,900.43	\$ 3,152.32	\$ 65.86	\$ 20.13	\$ 33.79	\$ 10,227.16	\$ 340
	2	5.9	G	2,347.20	232.18	190.53	876.30	13.30	4.05	8.72	3,672.24	622
	3	19.8	M	6,267.81	705.81	440.23	2,109.11	831.32	478.56	37.80	10,869.84	549
	4	12.6	G	4,532.42	456.16	176.82	1,661.46	-1.80	5.50	9.81	6,879.37	546
	5	5.6	G	2,417.07	178.93	176.45	828.68	250.57	167.24	50.05	4,068.99	726
Total		74.0		\$ 19,713.06	\$ 3,117.53	\$ 2,284.46	\$ 8,628.07	\$ 1,159.21	\$ 675.48	\$ 139.37	\$ 35,717.60	\$ 483
Franklin	1	14.8	G	\$ 2,609.67	\$ 214.47	\$ 329.38	\$ 478.17	\$ 10.28			\$ 3,641.97	\$ 246
	2	9.4	G	4,352.24	505.18	292.24	1,146.11	10.22		24.41	6,330.40	700
	3	11.0	P	2,843.79	791.87	299.37	1,470.54	17.97		21.19	5,444.73	495
	4	12.5	P	5,254.45	412.16	143.87	828.86	526.38		175.58	7,341.30	583
Total		47.8		\$ 15,060.15	\$ 1,923.68	\$ 1,064.86	\$ 3,923.68	\$ 554.57		\$ 231.46	\$ 22,758.40	\$ 476
Fremont	1	13.7	E	\$ 1,984.29	\$ 1,410.77	\$ 884.31	\$ 1,000.57				\$ 4,700.99	\$ 343
	2	14.5	E	3,109.31	3,296.16	358.88	186.19				7,666.72	529
	3	21.6	M	5,387.69	2,705.60	1,139.47	301.45				10,262.41	475
	4	6.7	E	1,540.67	543.51	157.83	82.22				2,497.35	373
	5	4.1	E	397.71	401.61	348.29	29.15				1,275.33	311
Total		60.6		\$ 12,425.67	\$ 8,444.71	\$ 2,888.78	\$ 709.58			\$ 1,933.16	\$ 26,401.90	\$ 436
Greene	1	37.0	P	\$ 4,114.52	\$ 774.30	\$ 402.28	\$ 1,439.69				\$ 6,735.94	\$ 249
	2	17.1	G	7,756.12	558.87	296.45	748.15				9,365.19	548
	3	14.5	G	2,602.40	275.81	37.03	837.12				3,554.64	266
	4	14.3	G	7,121.26	421.95	155.05	1,822.18				9,558.45	668
	5	8.8	G	7,764.00	282.48	21.93	1,478.93				9,553.21	1,085
Total		81.7		\$ 29,418.30	\$ 2,313.32	\$ 912.74	\$ 6,326.07			\$ 97.00	\$ 39,037.43	\$ 478
Grundy	1	23.3	G	\$ 6,744.78	\$ 379.64	\$ 1,000.25	\$ 1,041.46				\$ 9,226.13	\$ 394
	2	24.2	G	20,081.13	984.80	486.74	1,234.14				23,906.57	951
	3	12.2	G	4,129.92	327.44	160.23	502.62				5,120.21	420
Total		59.7		\$ 30,955.83	\$ 1,641.88	\$ 1,707.22	\$ 2,778.22			\$ 269.73	\$ 37,352.91	\$ 636

Guthrie	1	15.1	E	\$ 2,739.66	\$ 836.83	\$ 404.04	\$ 637.90				\$ 5,715.09	\$ 378
	2	23.9	M	7,570.30	2,921.82	2,453.59	2,371.81				15,482.25	648
	3	22.4	E	9,302.73	1,602.60	628.12	1,308.73				13,906.89	592
	4	15.9	E	4,844.96	1,730.88	1,089.09	1,617.97				8,688.60	546
Total		77.3		\$ 25,517.65	\$ 7,072.13	\$ 4,664.84	\$ 5,396.41			\$ 501.80	\$ 43,152.83	\$ 538
Hamilton	1	23.8	G	\$ 10,611.90	\$ 686.80	\$ 844.45	\$ 918.70				\$ 13,061.85	\$ 549
	2	23.2	G	10,533.46	942.14	734.05	905.74				13,115.39	565
	3	18.1	G	5,615.18	533.08	775.27	851.87				7,825.40	432
	4	6.0	G	1,499.71	144.63	192.77	297.65				2,134.81	356
Total		71.1		\$ 28,260.25	\$ 2,356.70	\$ 2,546.54	\$ 2,973.96				\$ 36,137.45	\$ 508
Hancock	1	25.4	P	\$ 1,408.45	\$ 886.24	\$ 207.75	\$ 4,180.34				\$ 6,795.28	\$ 268
	2	10.5	G	9,129.75	445.94	321.23	1,210.55				4,115.47	303
	3	13.3	G	7,032.59	543.46	66.49	655.57				8,327.11	626
	4	11.1	G	1,596.32	278.91	6.00	1,240.59				3,129.82	283
Total		60.3		\$ 12,277.11	\$ 2,154.55	\$ 601.47	\$ 7,296.05			\$ 38.50	\$ 22,307.68	\$ 371
Hardin	1	14.0	G	\$ 7,325.97	\$ 799.70	\$ 290.15	\$ 619.97				\$ 9,051.16	\$ 647
	2	24.0	G	13,792.80	979.60	637.91	580.91				16,024.47	608
	3	10.5	G	10,675.83	925.28	1,039.67	577.97				13,249.79	679
	4	13.2	G	10,641.44	999.08	80.07	250.73				11,302.85	856
Total		70.7		\$ 42,435.04	\$ 3,003.66	\$ 2,047.80	\$ 2,038.58				\$ 49,638.30	\$ 702
Harrison	1	28.9	P	\$ 5,302.46	\$ 5,064.25	\$ 2,388.90	\$ 456.12				\$ 13,700.75	\$ 476
	2	26.4	E	5,348.27	2,649.14	1,142.29	172.51				9,304.18	356
	3	10.8	E	2,453.77	1,614.28	1,804.40	322.70				6,276.44	582
	4	12.1	E	1,860.00	2,234.29	738.15	635.82				5,617.66	464
Total		78.2		\$ 14,964.50	\$ 12,431.96	\$ 6,133.74	\$ 1,638.15			\$ 416.54	\$ 35,049.03	\$ 445
Henry	1	18.7	P	\$ 5,071.31	\$ 2,381.28	\$ 1,425.72	\$ 126.71				\$ 10,186.02	\$ 545
	2	12.9	E	2,652.00	1,342.02	287.51	69.61				4,351.83	337
	3	10.4	E	3,372.65	1,323.56	318.74	88.82				5,103.77	491
	4	7.2	E	2,330.57	655.69	569.64	58.24				3,624.14	516
Total		55.8		\$ 13,826.53	\$ 5,630.54	\$ 3,552.71	\$ 324.38				\$ 24,322.15	\$ 477
Howard	1	24.5	G	\$ 12,027.19	\$ 658.04	\$ 386.33	\$ 4,777.05				\$ 18,690.85	\$ 758
	2	13.8	M	3,907.66	643.16	212.78	1,780.09				6,602.69	523
	3	10.9	M	4,320.79	321.82	696.58	1,784.23				7,134.93	654
	4	6.9	G	3,833.90	440.56	313.89	1,470.46				6,365.55	922
Total		55.1		\$ 24,184.75	\$ 2,033.53	\$ 1,609.53	\$ 9,511.83			\$ 573.66	\$ 38,273.40	\$ 695

SCHEDULE NO. 13—PART II—Continued

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IOWA STATE HIGHWAY COMMISSION

County	Unit	Mileage	Classification	Maintenance Proper				Betterments			Total Maintenance Proper and Betterments	Average Per Mile
				Surface	Road Bed	Structures	Snow Removal	Surface	Road Bed	Structures		
Humboldt	1	12.2	G	\$ 7,244.70	\$ 575.35	\$ 225.17	\$ 2,709.10		\$ 5.40	\$ 30.18	\$ 10,789.00	\$ 884
	2	13.3	G	5,250.87	820.13	378.09	2,816.26	\$ 2.50	12.60	93.04	9,373.49	705
	3	13.4	G	3,429.29	640.03	244.21	2,547.22	2.50	10.80	35.08	6,909.13	516
	4	6.1	G	3,335.63	510.20	129.65	1,306.76		11.20	19.60	5,313.04	871
Total		45.0		\$ 19,260.49	\$ 2,545.71	\$ 977.12	\$ 9,379.34	\$ 5.00	\$ 40.00	\$ 177.90	\$ 32,385.56	\$ 720
Ida	1	17.9	G	\$ 7,081.78	\$ 1,053.81	\$ 468.13	\$ 1,956.82			\$ 253.95	\$ 11,714.49	\$ 654
	2	22.7	G	9,836.32	1,275.82	246.27	1,683.31				13,041.72	574
	3	11.2	M	3,479.27	1,034.27	167.08	914.63				5,596.15	500
Total		51.8		\$ 21,297.37	\$ 3,363.90	\$ 882.38	\$ 4,554.76			\$ 253.95	\$ 30,352.36	\$ 586
Iowa	1	21.7	M	\$ 9,842.03	\$ 697.82	\$ 1,491.71	\$ 496.75				\$ 12,528.31	\$ 577
	2	28.9	G	7,643.25	2,306.96	1,046.42	525.94				11,522.57	399
	3	13.2	E	3,155.70	1,146.04	3,279.73	438.43				8,019.90	607
	4	7.3	E	2,098.86	450.34	411.37	218.00				3,178.57	435
Total		71.1		\$ 22,739.84	\$ 4,601.16	\$ 6,229.23	\$ 1,679.12				\$ 35,249.35	\$ 496
Jackson	1	16.9	G	\$ 2,670.86	\$ 1,613.22	\$ 95.62	\$ 770.13			\$ 97.99	\$ 5,247.82	\$ 310
	2	28.5	E	9,243.52	4,692.95	672.12	2,996.60		\$ 50.00	259.38	17,914.57	628
	3	20.5	M	5,301.42	964.43	1,303.19	1,296.15			79.03	8,914.22	435
	4	13.3	G	6,255.14	1,444.16	90.48	599.22			109.00	8,498.00	639
	5	1.5	P	394.23	402.57	112.63	83.43	\$ 67.15		37.94	1,097.95	731
Total		80.7		\$ 23,865.17	\$ 9,087.33	\$ 2,274.04	\$ 5,745.53	\$ 67.15	\$ 50.00	\$ 583.34	\$ 41,672.56	\$ 516
Jasper	1	16.4	G	\$ 5,803.78	\$ 1,379.84	\$ 705.14	\$ 1,503.08			\$ 119.66	\$ 9,511.50	\$ 580
	2	20.1	G	9,270.02	1,387.29	1,482.23	1,338.88			305.19	13,783.61	686
	3	28.1	M	9,368.82	2,230.66	998.52	2,602.17			797.57	15,897.74	566
	4	30.2	M	9,042.78	2,702.65	2,228.07	3,248.14			1,063.90	18,285.54	605
	5	4.0	G									
Total		98.8		\$ 33,385.40	\$ 7,700.44	\$ 5,413.06	\$ 8,692.27			\$ 2,286.32	\$ 57,478.39	\$ 582

Jefferson	1	11.0	P	\$ 3,657.75	\$ 1,734.49	\$ -155.04		\$ 25.23		\$ 543.95	\$ 5,805.48	\$ 528
	2	12.2	P	2,729.13	997.95	-294.96				549.42	3,921.54	321
	3	19.5	M	5,737.90	92.67	294.04				1,159.20	7,283.81	373
	4	6.6	P	1,683.02	1,468.78	-109.65				386.61	3,430.24	520
	5	.2	Br.	2,115.05	384.77	4.00		1.48		53.70	2,557.52	12,786
Total		49.5		\$ 15,922.85	\$ 4,618.66	\$ -262.51		\$ 26.71		\$ 2,692.88	\$ 22,968.50	\$ 465
Johnson	1	26.8	P	\$ 2,297.31	\$ 2,349.90	\$ 319.38	\$ 324.90	\$ 45.64		\$ 446.87	\$ 5,784.09	\$ 189
	2	14.6	P	2,086.37	1,330.11	310.19	170.86	224.72		130.24	4,252.49	291
	3	15.1	G	5,182.53	797.84	170.88	409.73	9.60		102.70	6,673.28	442
	4	10.5	M	8,321.48	1,573.84	156.54	207.50		\$ 6.50	13.73	10,279.59	978
	5	7.9	G	1,877.04	1,067.36	87.18	293.76			67.00	3,392.34	429
Total		74.9		\$ 19,764.73	\$ 7,119.05	\$ 1,044.17	\$ 1,406.84	\$ 279.90	\$ 6.50	\$ 760.54	\$ 30,381.79	\$ 406
Jones	1	24.3	P	\$ 8,862.24	\$ 1,355.62	\$ 2,150.40	\$ 1,235.55			\$ 53.03	\$ 13,656.84	\$ 562
	2	7.3	E	2,000.86	203.66	254.52	62.05	\$ 2,682.47		15.97	5,219.53	715
	3	8.4	G	4,230.49	1,321.59	1,964.20	140.16			16.63	7,673.07	914
	4	21.7	G	7,675.15	1,217.78	721.90	754.79	64.69		56.90	10,491.21	483
	5	4.1	E	24.30	4.80	46.40				75.50	75.50	18
Total		65.8		\$ 22,793.04	\$ 4,103.45	\$ 5,137.42	\$ 2,192.55	\$ 2,747.16		\$ 142.53	\$ 37,116.15	\$ 564
Keokuk	1	16.3	G	\$ 2,839.22	\$ 1,599.89	\$ 321.35	\$ 27.85	\$.18		\$ 250.37	\$ 5,038.86	\$ 309
	2	12.7	P	3,656.29	778.12	681.74	4.00	132.36		235.15	5,487.66	432
	3	17.2	E	3,837.82	2,399.51	391.39	7.00		\$ 44.00	276.40	6,956.12	404
	4	22.4	M	4,620.06	657.63	1,552.41	15.55			1,174.52	8,020.17	358
	5	15.1	M	3,226.37	1,203.92	406.49	24.90		434.40	235.15	5,531.23	366
Total		83.7		\$ 18,179.76	\$ 6,639.07	\$ 3,353.38	\$ 79.30	\$ 132.54	\$ 478.40	\$ 2,171.59	\$ 31,034.04	\$ 395
Kossuth	1	24.0	G	\$ 15,603.21	\$ 420.00	\$ 391.50	\$ 3,771.64			\$ 611.29	\$ 20,797.64	\$ 867
	2	23.2	G	2,991.02	284.87	410.13	2,291.83			120.41	6,198.26	267
	3	13.2	P	1,589.62	282.73	213.88	2,390.18			39.67	4,519.08	342
	4	11.9	G	8,104.94	174.46	30.03	1,648.61			13.18	9,971.22	338
	5	32.6	M	10,754.10	879.88	1,226.75	4,642.43		\$ 194.00	74.21	17,771.37	545
Total		104.9		\$ 39,042.89	\$ 2,141.94	\$ 2,272.29	\$ 14,747.69		\$ 194.00	\$ 858.76	\$ 59,257.57	\$ 565
Lee	1	19.1	E	\$ 5,017.43	\$ 1,272.32	\$ 1,685.99	\$ 163.71			\$ 41.31	\$ 8,180.76	\$ 419
	2	16.1	E	5,392.20	459.05	208.39	267.68			38.24	6,365.56	395
	3	39.3	M	9,194.52	3,641.95	1,444.16	128.34			78.23	14,487.20	494
	4	8.6	M	1,600.12	674.74	659.63	119.80	\$ 1,554.40		225.12	4,799.16	558
	5	13.2	M	3,686.83	924.60	2,335.13	113.90		\$ -34.65	42.31	7,102.77	538
Total		86.3		\$ 24,891.10	\$ 6,972.66	\$ 6,333.30	\$ 793.43	\$ 1,554.40	\$ -34.65	\$ 425.21	\$ 40,935.45	\$ 474

FINANCIAL STATEMENT

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SCHEDULE NO. 13—PART II—Continued

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IOWA STATE HIGHWAY COMMISSION

County	Unit	Mileage	Classification	Maintenance Proper				Betterments			Total Maintenance Proper and Betterments	Average Per Mile
				Surface	Road Bed	Structures	Snow Removal	Surface	Road Bed	Structures		
Linn	1	25.9	P	\$ 3,452.68	\$ 3,777.59	\$ 1,824.74	\$ 2,194.81				\$ 11,249.82	\$ 434
	2	21.8	G	5,399.93	3,005.33	1,483.65	808.36	\$ 6,157.95			16,825.22	772
	3	18.5	G	4,897.90	1,797.00	476.09	909.12	529.12			8,609.23	465
	4	11.8	G	6,239.67	969.38	467.34	688.14				8,364.53	709
	5	24.5	G	8,610.01	2,314.06	841.24	750.98	6,071.12			19,187.41	783
Total		102.5		\$ 25,570.19	\$ 11,863.36	\$ 5,093.06	\$ 5,351.41	\$ 13,358.19			\$ 64,236.21	\$ 627
Louisa	1	20.2	G	\$ 7,729.29	\$ 2,109.37	\$ 856.06	\$ 41.45			\$ 105.82	\$ 10,841.99	\$ 537
	2	13.1	E	3,650.68	1,154.78	349.93	3.50			26.00	5,184.89	396
	3	17.6	M	5,011.96	2,020.32	2,181.26	29.70			235.06	9,478.30	539
	4	4.1	E	1,002.06	591.35	650.92					2,244.33	547
Total		55.0		\$ 17,393.99	\$ 5,875.82	\$ 4,038.17	\$ 74.65			\$ 366.88	\$ 27,749.51	\$ 505
Lucas	1	12.6	M	\$ 3,550.14	\$ 1,289.04	\$ 884.54	\$ 224.30	\$ 294.18		\$ 101.32	\$ 6,343.52	\$ 503
	2	11.6	P	5,295.81	393.18	268.77	257.99	500.59		87.02	6,803.36	586
	3	14.2	E	2,532.26	779.39	238.66	294.07			99.60	3,933.98	277
	4	7.5	E	1,552.15	632.36	82.47	99.65	3.25		57.73	2,427.61	323
	5	10.7	E	2,578.27	732.57	80.11	218.77			55.00	3,664.72	342
Total		56.6		\$ 15,508.63	\$ 3,826.54	\$ 1,544.55	\$ 1,094.78	\$ 798.02		\$ 400.67	\$ 23,173.19	\$ 409
Lyon	1	36.4	G	\$ 7,821.87	\$ 791.41	\$ 475.55	\$ 1,149.52			\$ 34.58	\$ 10,272.93	\$ 282
	2	18.8	G	3,121.38	439.72	442.41	817.38			9.99	4,830.88	257
	3	19.1	G	5,057.07	794.65	306.05	1,372.69			64.20	7,594.66	397
Total		74.3		\$ 16,000.32	\$ 2,025.78	\$ 1,224.01	\$ 3,339.59			\$ 108.77	\$ 22,698.47	\$ 305
Madison	1	11.7	G	\$ 5,170.20	\$ 806.18	\$ 262.34	\$ 563.62			\$ 24.55	\$ 6,826.89	\$ 583
	2	21.7	E	5,089.78	1,285.92	701.47	734.34			32.15	7,843.66	361
	3	12.5	E	3,668.56	875.41	231.75	632.59	\$ 1.00		22.00	5,431.31	434
	4	12.4	G	3,700.50	946.92	225.18	467.30			23.65	5,363.55	432
Total		58.3		\$ 17,629.04	\$ 3,914.43	\$ 1,420.74	\$ 2,397.85	\$ 1.00		\$ 102.35	\$ 25,465.41	\$ 437

Mahaska	1	21.2	M	\$ 4,591.86	\$ 2,248.01	\$ 1,304.73	\$ 34.84			\$ 263.56	\$ 8,443.00	\$ 398
	2	11.8	M	2,190.41	1,292.94	1,415.06	13.52			338.72	5,259.65	446
	3	11.6	M	1,971.65	724.55	328.90	32.60	\$ -1.05		248.57	3,305.22	285
	4	15.5	M	3,437.20	2,568.43	483.82	43.61	96.64		264.44	6,894.14	445
	5	23.3	M	5,175.41	2,092.24	996.36	50.44	108.33		276.05	8,698.83	373
Total		83.4		\$ 17,375.53	\$ 8,926.17	\$ 4,528.87	\$ 175.01	\$ 203.92		\$ 1,391.34	\$ 32,600.84	\$ 391
Marion	1	13.6	G	\$ 3,199.39	\$ 695.86	\$ 201.35	\$ 1,007.22			\$ 53.96	\$ 5,157.78	\$ 379
	2	19.8	E	5,471.53	972.86	351.57	446.37			192.48	7,434.81	375
	3	12.8	E	3,453.80	529.80	346.55	441.67			146.62	4,918.44	384
	4	14.1	G	6,024.37	1,318.00	624.74	644.05	\$ 19.20		59.74	8,690.10	616
	5	35.8	E	13,521.26	3,890.15	950.05	839.28			244.80	19,445.54	542
Total		96.1		\$ 31,670.35	\$ 7,406.67	\$ 2,474.26	\$ 3,878.59	\$ 19.20		\$ 697.60	\$ 45,646.67	\$ 475
Marshall	1	28.6	P	\$ 1,808.45	\$ 3,813.28	\$ 834.45	\$ 1,661.76			\$ 153.41	\$ 8,271.35	\$ 289
	2	8.3	G	6,832.10	566.17	244.80	840.73			28.61	8,512.41	1,026
	3	13.2	G	8,323.94	1,759.23	568.75	1,007.78			277.78	11,937.48	904
	4	1.3	G	2,024.25	4.62	5.74	4.05	\$ 966.43	\$ 1,335.77	5.92	4,346.78	3,343
	5	8.1	G									
Total		59.5		\$ 18,988.74	\$ 6,143.30	\$ 1,653.74	\$ 3,514.32	\$ 966.43	\$ 1,335.77	\$ 465.72	\$ 33,068.02	\$ 556
Mills	1	12.4	P	\$ 3,714.13	\$ 4,571.77	\$ 1,463.53	\$ 356.60	\$ 57.57		\$ 395.60	\$ 10,559.20	\$ 852
	2	16.9	E	4,557.33	4,576.46	1,271.53	360.14			49.28	10,814.74	640
	3	8.8	E	3,275.77	1,333.03	166.81	95.22			27.11	4,897.94	556
	4	11.9	E	1,990.57	2,108.64	562.02	162.16			41.90	4,865.29	409
Total		50.0		\$ 13,537.80	\$ 12,589.90	\$ 3,463.89	\$ 974.12	\$ 57.57		\$ 513.89	\$ 31,137.17	\$ 623
Mitchell	1	9.9	G	\$ 4,571.77	\$ 592.82	\$ 669.80	\$ 1,255.80			\$ 81.06	\$ 7,171.25	\$ 724
	2	17.8	G	6,959.49	1,216.92	974.67	2,402.00			98.43	11,651.51	655
	3	7.6	G	2,385.04	355.58	382.86	1,252.84			38.65	4,414.97	581
	4	20.9	G	6,596.55	787.84	718.41	1,705.77			294.83	10,103.40	483
	5	7.8	E	1,981.13	143.27	58.49	727.37			56.04	2,966.30	380
Total		64.0		\$ 22,493.98	\$ 3,096.43	\$ 2,804.23	\$ 7,343.78			\$ 569.01	\$ 36,307.43	\$ 465
Monona	1	14.5	P	\$ 1,049.98	\$ 538.60	\$ 41.91	\$ 12.85	\$ 3.68		\$ 38.72	\$ 1,685.74	\$ 116
	2	10.6	G	1,828.87	243.04	245.99	27.36			17.38	2,362.64	223
	3	26.4	M	3,999.40	3,205.48	1,550.41	512.30			403.75	9,671.34	366
	4	18.6	P	3,092.05	1,250.38	894.23	1,332.48	43.50		130.47	6,743.11	363
	5	26.5	E	1,277.09	304.95	48.89	307.84				1,968.77	731
Total		96.6		\$ 11,247.39	\$ 5,542.45	\$ 2,781.43	\$ 2,192.83	\$ 47.18		\$ 590.32	\$ 22,401.60	\$ 232

FINANCIAL STATEMENT

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SCHEDULE NO. 13—PART II—Continued

County	Unit	Mileage	Classification	Maintenance Proper				Betterments			Total Maintenance Proper and Betterments	Average Per Mile
				Surface	Road Bed	Structures	Snow Removal	Surface	Road Bed	Structures		
Monroe	1	9.0	E	\$ 5,640.05	\$ 756.76	\$ 300.29	\$ 324.30			\$ 25.44	\$ 7,046.84	\$ 783
	2	14.7	E	6,568.01	1,066.88	845.66	567.71			13.76	9,062.02	616
	3	24.2	P	7,249.58	2,323.17	241.06	1,001.97	\$ 691.15		55.52	11,471.45	474
	4	8.1	E	3,244.43	783.82	338.41	353.56		\$ 6.25	25.47	4,751.94	587
	5	13.3	E	2,250.63	398.16	—156.81	126.33			2.10	2,620.41	197
Total		69.3		\$ 24,952.70	\$ 5,237.79	\$ 1,568.61	\$ 2,373.87	\$ 691.15	\$ 6.25	\$ 122.29	\$ 34,952.66	\$ 504
Montgomery	1	8.0	E	\$ 993.01	\$ 1,409.44	\$ 473.28	\$ 113.87			\$ 4.00	\$ 2,993.60	\$ 374
	2	18.1	M	4,978.38	2,055.27	641.42	286.14			8.35	7,969.56	440
	3	7.7	E	1,049.62	689.14	1,018.68	37.23			3.65	2,798.32	363
	4	15.9	M	4,085.46	2,322.79	1,271.93	81.31			45.30	7,756.79	488
Total		49.7		\$ 11,056.47	\$ 6,476.64	\$ 3,405.31	\$ 518.55			\$ 61.30	\$ 21,518.27	\$ 433
Muscatine	1	22.9	M	\$ 7,990.62	\$ 2,822.11	\$ 1,216.90	\$ 6.61	\$ 28.25	\$ —83.25	\$ 222.89	\$ 12,204.13	533
	2	17.0	G	6,604.95	811.00	647.24	45.47	5.00		147.26	8,260.92	486
	3	26.1	M	7,048.85	1,609.91	1,891.28	234.17	157.54	3.25	333.05	11,278.05	432
	4	20.1	E	6,087.69	1,290.67	1,107.11	29.53	4.00	274.99	100.78	8,894.77	443
	5	10.8	G	2,215.47	651.11	287.77	26.66	6.00		39.85	3,226.86	299
Total		96.9		\$ 29,947.58	\$ 7,184.80	\$ 5,150.30	\$ 342.44	\$ 200.79	\$ 194.99	\$ 843.83	\$ 43,864.73	\$ 453
O'Brien	1	22.5	P	\$ 1,363.54	\$ 992.69	\$ 144.59	\$ 1,497.51			\$ 4.66	\$ 4,002.09	\$ 178
	2	26.3	M	8,064.39	1,580.13	648.57	1,420.36			13.72	11,727.17	446
	3	24.0	M	6,493.57	826.10	279.86	1,518.17			5.97	9,123.67	380
Total		72.8		\$ 15,921.50	\$ 3,398.92	\$ 1,073.02	\$ 4,436.04			\$ 24.35	\$ 24,853.83	\$ 341
Osceola	1	27.3	G	10,711.48	606.37	\$ 295.87	\$ 2,248.78			\$ 47.63	\$ 13,910.13	\$ 510
	2	17.3	G	7,829.73	416.78	333.79	1,233.45			20.37	9,834.12	569
Total		44.6		\$ 18,541.21	\$ 1,023.15	\$ 629.66	\$ 3,482.23			\$ 68.00	\$ 23,744.25	\$ 532
Page	1	23.3	P	\$ 5,337.78	\$ 3,147.75	\$ 1,720.21	\$ 293.81			\$ 267.98	\$ 10,697.53	\$ 459
	2	22.8	E	6,293.86	2,609.06	390.39	115.57			30.19	9,439.07	414
	3	6.0	E	1,249.97	471.67	80.34	26.17			24.77	1,852.92	308
	4	19.8	E	7,487.52	1,529.29	375.93	486.57			—4.08	9,875.23	499
Total		71.9		\$ 20,369.13	\$ 7,757.77	\$ 2,566.87	\$ 892.12			\$ 318.86	\$ 31,864.75	\$ 443

Palo Alto	1	25.6	M	\$ 11,638.52	\$ 1,625.19	\$ 1,923.61	\$ 2,886.20			\$ 616.70	\$ 19,139.72	\$ 748
	2	2.0	G	1,285.84	104.61	6.34	87.63			15.00	1,499.21	750
	3	9.1	G	2,488.73	751.56	162.72	580.37			143.99	4,127.37	454
	4	11.2	P	872.59	491.44	138.99	471.53			457.38	3,332.43	297
Total		47.9		\$ 16,285.38	\$ 2,972.80	\$ 2,231.66	\$ 4,025.73			\$ 1,517.20	\$ 28,098.73	\$ 586
Plymouth	1	16.8	P	\$ 542.90	\$ 1,463.50	\$ 821.00	\$ 632.84				\$ 3,460.24	\$ 206
	2	22.1	P	3,828.81	1,038.59	1,118.20	1,085.61				7,971.21	361
	3	18.6	M	2,934.24	1,129.71	702.83	1,602.70				6,369.48	343
	4	38.8	G	5,559.07	1,909.62	1,419.87	3,306.34			\$ 1,395.00	13,589.90	350
	5	23.1	E	3,698.14	1,776.59	675.58	899.37				7,049.68	305
Total		119.4		\$ 16,563.16	\$ 7,318.01	\$ 4,737.48	\$ 8,426.86			\$ 1,395.00	\$ 38,440.60	\$ 322
Pocahontas	1	13.1	G	\$ 8,350.22	\$ 550.99	\$ 82.21	\$ 1,427.76				\$ 10,559.46	\$ 806
	2	22.0	G	8,366.47	1,145.72	388.13	1,982.16			\$ 148.28	12,111.12	551
	3	17.2	G	2,135.36	211.47	42.86	682.87			223.96	3,296.52	192
	4	12.1	G	7,428.95	544.87	61.98	1,295.58			129.48	9,460.86	782
	5	15.0	G	6,549.57	655.15	189.20	1,772.87			168.19	9,334.98	622
Total		79.4		\$ 32,830.57	\$ 3,108.20	\$ 764.38	\$ 7,161.24			\$ 898.55	\$ 44,762.94	\$ 564
Polk	1	65.1	P	\$ 12,669.25	\$ 5,103.45	\$ 881.15	\$ 3,592.08			\$ 27.60	\$ 22,330.93	\$ 343
	2	13.8	M	6,217.27	957.90	199.48	137.65				7,512.30	544
	3	19.6	P	4,135.42	1,363.28	301.00	602.52			34.10	6,941.04	354
	4	4.9	P	376.26	152.00	6.91	16.65				551.82	112
	5	.9	M	673.63	58.51					96.52	828.66	920
Total		104.3		\$ 24,071.83	\$ 7,575.14	\$ 1,388.54	\$ 4,348.90			\$ 61.70	\$ 38,164.75	\$ 366
Pottawattamie	1	23.8	M	\$ 5,408.30	\$ 6,990.09	\$ 2,386.84	\$ 444.32	\$ 71.90		\$ 106.46	\$ 15,347.91	\$ 645
	2	32.2	E	11,301.79	5,354.55	2,487.51	2,108.91			125.18	21,277.04	661
	3	36.9	E	12,626.98	7,433.23	3,010.56	2,255.08			306.23	25,632.08	695
	4	28.3	E	7,846.59	4,336.25	1,959.60	1,012.43			432.23	15,587.10	551
	5	*1.3	G	1,165.81	82.40	154.27	10.45	4.20		67.37	1,484.50	1,142
Total		121.2		\$ 38,249.47	\$ 24,136.52	\$ 9,908.78	\$ 5,830.29	\$ 76.10		\$ 1,037.47	\$ 79,328.63	\$ 654
Poweshiek	1	25.5	M	\$ 7,508.28	\$ 2,331.24	\$ 1,837.87	\$ 2,821.26			\$ 37.99	\$ 14,536.64	\$ 570
	2	24.5	M	6,269.30	2,852.60	2,357.45	3,461.33			44.66	14,989.24	612
	3	25.0	G	14,071.11	2,044.99	2,011.86	3,128.92			43.66	21,300.54	852
Total		75.0		\$ 27,847.59	\$ 7,228.83	\$ 6,207.18	\$ 9,411.51			\$ 5.00	\$ 50,826.42	\$ 678

*Pottawattamie County Unit No. 5 (1.3 miles) withdrawn from Primary System Oct. 30, 1928, mileage not included in totals.

SCHEDULE NO. 13—PART II—Continued

County	Unit	Mile- age	Classi- fica- tion	Maintenance Proper				Betterments			Total Maintenance Proper and Betterments	Average Per Mile
				Surface	Road Bed	Structures	Snow Removal	Surface	Road Bed	Structures		
Ringgold	1	13.2	M	\$ 4,258.91	\$ 1,271.55	\$ 579.05	\$ 355.52	\$ 8.00		\$ 40.41	\$ 6,553.44	\$ 497
	2	17.0	E	4,094.19	591.19	164.93	440.80			141.72	5,432.83	320
	3	12.9	G	5,421.71	1,060.21	211.76	308.93			139.90	7,142.51	554
	4	12.4	E	2,949.36	783.95	841.20	436.35			117.86	5,478.32	442
Total		55.5		\$ 16,724.17	\$ 3,706.90	\$ 1,796.94	\$ 1,581.60	\$ 337.60		\$ 439.89	\$ 24,607.10	\$ 443
Sac	1	32.2	G	\$ 7,789.81	\$ 1,159.32	\$ 429.71	\$ 8,742.98	\$ 560.46		\$ 153.58	\$ 12,714.94	\$ 395
	2	20.1	G	12,026.51	803.15	205.24	2,394.92			81.22	15,510.34	772
	3	18.7	G	5,763.33	551.67	207.33	2,037.57			83.49	8,643.39	462
	4	29.5	G	8,744.62	1,009.27	437.04	3,139.83			121.23	13,389.94	461
Total		100.5		\$ 34,323.67	\$ 3,533.41	\$ 1,079.32	\$ 11,314.60	\$ 560.46		\$ 439.52	\$ 50,458.61	\$ 502
Scott	1	67.4	P	\$ 7,523.64	\$ 9,803.35	\$ 1,473.78	\$ 2,500.78			\$ 693.11	\$ 22,484.66	\$ 334
	2	23.6	P	4,004.65	3,089.64	403.82	1,141.71			152.48	9,482.31	402
Total		91.0		\$ 11,528.30	\$ 13,552.99	\$ 1,967.60	\$ 4,072.49			\$ 845.59	\$ 31,966.97	\$ 351
Shelby	1	10.1	E	\$ 5,418.73	\$ 493.19	\$ 324.01	\$ 554.03			\$ 43.59	\$ 6,746.37	\$ 608
	2	14.4	E	6,275.82	2,394.47	401.22	281.56			4,050.59	13,618.39	946
	3	13.2	E	2,444.88	752.32	856.95	273.11			7.65	4,334.91	328
	4	11.2	E	3,356.95	786.33	—19.15	1.18			—13.50	4,111.82	367
Total		48.9		\$ 17,496.39	\$ 4,426.31	\$ 1,563.03	\$ 1,109.88			\$ 4,001.15	\$ 28,811.49	\$ 539
Sioux	1	5.3	P	\$ 281.39	\$ 137.10	\$.38	\$ 24.87			\$ 1.05	\$ 444.79	\$ 84
	2	28.6	G	9,904.52	1,145.09	911.00	2,678.60				14,576.86	510
	3	32.9	G	10,937.51	1,358.02	276.85	3,301.92			621.13	16,509.40	502
	4	13.8	G	6,601.90	453.72	32.75	1,103.18			6.19	8,197.74	594
Total		80.6		\$ 27,725.32	\$ 3,993.93	\$ 1,220.98	\$ 7,008.57			\$ 621.13	\$ 39,728.79	\$ 493
Story	1	29.7	G	\$ 24,385.54	\$ 1,435.76	\$ 480.14	\$ 694.17				\$ 26,995.61	\$ 1,904
	2	11.0	G	16,128.46	1,086.26	247.18	811.51			18.00	18,291.41	1,063
	3	13.9	G	4,429.57	661.00	383.33	647.74			18.00	6,142.24	442
	4	12.8	G	9,991.19	587.20	129.31	747.87				11,455.57	895
	5	11.1	G	5,287.29	332.15	688.11	112.00				6,419.55	578
Total		69.5		\$ 60,222.05	\$ 4,102.97	\$ 1,930.07	\$ 3,013.29			\$ 26.00	\$ 69,304.38	\$ 997

Tama	1	22.4	P	\$ 3,605.92	\$ 5,030.67	\$ 1,334.91	\$ 721.72	\$ 284.79	\$ 14.10	\$ 158.68	\$ 9,386.19	\$ 419
	2	32.7	G	23,119.42	2,236.61	1,409.81	1,928.19			71.83	28,502.51	872
	3	4.7	G	10,500.39	445.66	969.92	121.70			29.05	12,918.68	2,749
	4	6.5	G	1,571.80	899.93	56.75	582.54			5.75	3,096.83	476
	5	8.6	G	3,326.30	506.86	26.43	441.23			30.70	4,431.52	515
Total		74.9		\$ 42,163.83	\$ 7,309.79	\$ 3,917.82	\$ 3,395.38	\$ 1,333.40	\$ 14.10	\$ 295.41	\$ 58,329.73	\$ 779
Taylor	1	13.3	E	\$ 3,028.40	\$ 1,471.83	\$ 619.49				\$ 41.85	\$ 6,061.57	\$ 456
	2	14.2	E	2,783.29	1,300.25	1,358.25	1.00			48.68	5,491.38	387
	3	7.8	E	2,275.49	484.69	145.25	.25			16.30	2,921.98	374
	4	15.5	E	6,740.53	1,065.45	324.87				50.49	8,181.34	528
Total		50.8		\$ 15,727.62	\$ 4,322.22	\$ 2,447.86	\$ 1.25			\$ 157.32	\$ 22,656.27	\$ 446
Uncle	1	16.6	E	\$ 3,042.82	\$ 1,768.30	\$ 796.67	\$ 520.65			\$ 148.67	\$ 6,014.61	\$ 362
	2	10.3	M	1,555.05	1,470.16	858.14	248.00			45.99	4,177.34	406
	3	8.3	E	1,889.30	389.04	342.52	264.50			33.44	2,915.80	331
	4	9.6	E	4,436.08	1,932.40	347.50	339.31			55.44	7,130.73	743
	5	10.8	E	1,578.80	353.30	290.75	132.20			36.40	2,461.45	229
Total		55.6		\$ 12,490.65	\$ 5,833.10	\$ 2,792.58	\$ 1,324.66			\$ 319.94	\$ 22,699.33	\$ 406
Van Buren	1	13.1	G	\$ 16,542.28	\$ 402.91	\$ 340.24	\$ 11.00			\$ 50.20	\$ 17,346.73	\$ 1,324
	2	4.0	P	2,819.12	126.25	624.31	6.92			79.15	3,555.45	889
	3	19.3	M	7,066.34	1,011.12	545.85	40.05			175.72	8,850.83	459
	4	18.2	P	9,092.56	930.95	675.14	47.90			69.16	10,830.79	595
Total		54.6		\$ 35,514.40	\$ 2,470.33	\$ 2,085.54	\$ 105.87			\$ 374.23	\$ 40,576.80	\$ 743
Wapello	1	8.6	P	\$ 302.25	\$ 1,235.78	\$ 179.66	\$ 5.10			\$ 25.00	\$ 1,891.19	\$ 230
	2	7.4	E	1,940.17	888.00	334.79	10.60			25.00	3,198.56	432
	3	11.6	P	2,032.58	531.65	633.53	18.60			32.00	3,738.02	324
	4	10.9	P	1,011.41	1,296.23	178.13	21.90			148.00	3,430.54	315
	5	5.4	E	1,546.32	320.39	268.29	4.00			22.96	2,160.83	400
Total		43.9		\$ 6,922.73	\$ 5,361.86	\$ 1,527.80	\$ 60.20			\$ 232.36	\$ 14,439.14	\$ 329
Warren	1	14.1	G	\$ 7,607.83	\$ 1,195.76	\$ 616.44	\$ 658.43			\$ 488.07	\$ 10,621.78	\$ 753
	2	22.5	M	4,983.76	1,423.12	716.97	419.21			270.30	7,813.96	347
	3	11.9	M	6,031.56	950.53	654.21	624.29			43.22	8,503.81	698
	4	15.1	M	5,919.68	1,432.65	1,181.87	441.66			39.68	9,035.54	598
	5	23.8	E	7,021.65	2,155.55	1,339.15	1,200.57			96.89	12,419.84	522
Total		87.4		\$ 32,164.51	\$ 7,177.61	\$ 4,508.64	\$ 3,333.16			\$ 905.16	\$ 48,194.33	\$ 551

SCHEDULE NO. 13—PART II—Continued

82

County	Unit	Mileage	Classification	Maintenance Proper				Betterments			Total Maintenance Proper and Betterments	Average Per Mile
				Surface	Road Bed	Structures	Snow Removal	Surface	Road Bed	Structures		
Washington	1	25.7	M	\$ 8,830.17	\$ 1,972.18	\$ 389.84	\$ 60.34	\$ 148.74		\$ 849.67	\$ 12,250.94	\$ 477
	2	15.2	G	6,388.43	2,917.44	1,037.01	22.73			385.22	10,750.83	707
	3	13.2	G	4,516.31	748.14	2,319.12	14.50			347.66	7,945.73	602
	4	26.8	E	11,582.29	2,251.11	551.06	58.85			735.30	15,178.61	566
	5	9.7	E	2,734.55	1,022.86	141.60	26.25			237.26	4,162.52	429
Total		90.6		\$ 34,051.75	\$ 8,911.73	\$ 4,438.63	\$ 182.67	\$ 148.74		\$ 2,555.11	\$ 50,288.63	\$ 551
Wayne	1	16.0	M	\$ 5,858.74	\$ 1,237.00	\$ 365.20	\$ 709.25		\$ 7.00	\$ 110.61	\$ 8,287.80	\$ 518
	2	9.6	E	2,461.92	1,015.57	143.00	490.00			38.13	4,148.62	432
	3	12.8	E	4,474.28	546.29	192.40	495.00	\$ 370.20		48.30	6,126.47	478
	4	6.8	E	3,461.54	376.50	56.50	94.00			55.56	4,044.10	595
	5	15.7	M	3,530.98	1,164.72	104.78	582.94		38.50	68.90	5,490.82	350
Total		60.9		\$ 19,787.46	\$ 4,340.08	\$ 861.88	\$ 2,371.19	\$ 370.20	\$ 45.50	\$ 321.50	\$ 28,097.81	\$ 461
Webster	1	13.3	G	\$ 6,513.22	\$ 654.86	\$ 65.11	\$ 1,340.27			\$ 66.96	\$ 8,640.42	\$ 650
	2	27.1	G	16,574.83	926.37	312.17	3,353.81			349.43	21,516.61	794
	3	9.5	G	3,183.97	276.81	146.14	915.05			67.49	4,589.46	483
	4	14.9	G	8,252.00	356.41	1,078.33	1,453.13			131.65	11,271.52	756
	5	29.9	G	14,269.16	803.98	599.28	1,987.83			123.36	17,783.61	595
Total		94.7		\$ 48,793.18	\$ 3,018.43	\$ 2,201.03	\$ 9,050.09			\$ 738.89	\$ 63,801.62	\$ 674
Winnebago	1	22.6	G	\$ 10,009.34	\$ 396.06	\$ 630.85	\$ 2,684.87			\$.86	\$ 13,721.08	\$ 607
	2	6.9	G	2,301.37	110.43	20.16	513.71				2,945.67	427
	3	23.9	G	10,676.52	811.22	1,688.72	3,621.60			14.30	16,812.36	704
Total		53.4		\$ 22,987.23	\$ 1,317.71	\$ 2,339.73	\$ 6,820.18			\$ 15.16	\$ 33,480.01	\$ 627
Winneshiek	1	23.8	M	\$ 4,086.75	\$ 490.68	\$ 30.98	\$ 1,278.87			\$ 23.41	\$ 5,910.69	\$ 248
	2	12.2	E	3,475.06	358.91	132.61	1,843.49			28.80	5,838.87	479
	3	14.4	M	4,916.60	569.65	53.69	2,310.39			34.00	7,884.33	547
	4	28.4	G	9,680.03	1,254.54	272.42	3,349.98			59.81	14,616.78	515
	5	21.1	E	4,463.96	650.48	340.64	2,191.13			28.36	7,674.57	364
Total		99.9		\$ 26,622.40	\$ 3,324.26	\$ 830.34	\$ 10,973.86			\$ 174.38	\$ 41,925.24	\$ 420

Woodbury	1	35.2	P	\$ 1,477.74	\$ 2,974.51	\$ 885.57	\$ 4,723.59			\$ 210.60	\$ 10,272.01	\$ 292
	2	30.3	P	1,666.18	3,786.68	1,102.22	704.65	\$ 3.95		66.27	7,329.95	242
	3	17.8	P	704.05	1,164.27	399.71	280.26			47.89	2,596.18	146
	4	27.8	M	6,517.39	3,499.19	779.78	241.55			34.03	11,071.94	398
	5	8.9	E	585.30	632.81	124.48	391.40			19.86	1,753.85	197
Total		120.0		\$ 10,950.66	\$ 12,057.46	\$ 3,291.76	\$ 6,341.45	\$ 3.95		\$ 378.65	\$ 33,023.93	\$ 275
Worth	1	18.2	M	\$ 11,441.37	\$ 980.46	\$ 908.84	\$ 1,215.86			\$ 28.75	\$ 14,575.28	\$ 801
	2	25.6	G	6,465.43	1,534.03	4,150.18	1,800.86	\$ 266.63	\$ 168.16	77.51	14,522.80	567
	3	24.9	G	5,652.71	579.08	100.37	1,635.73			16.30	7,984.24	321
Total		68.7		\$ 23,559.51	\$ 3,093.57	\$ 5,159.39	\$ 4,712.50	\$ 266.63	\$ 168.16	\$ 122.56	\$ 37,082.32	\$ 540
Wright	1	12.5	G	\$ 5,619.79	\$ 463.07	\$ 218.94	\$ 892.62	\$ 2.10		\$ 188.78	\$ 7,385.30	\$ 591
	2	12.3	G	5,220.46	652.77	230.22	1,050.52	39.70		181.43	7,355.10	598
	3	12.2	G	7,130.65	1,027.81	678.34	440.65	3.00	\$ 46.20	203.11	9,529.76	781
	4	21.3	G	6,406.48	1,423.18	250.91	1,766.93	21.49		278.07	9,547.06	448
	5	12.0	G	5,070.11	453.54	588.03	955.86			175.46	7,243.00	604
Total		70.3		\$ 29,447.49	\$ 4,020.37	\$ 1,966.44	\$ 4,486.58	\$ 66.29	\$ 46.20	\$ 1,026.85	\$ 41,060.22	\$ 584
Grand total		*7165.0		\$2,302,855.05	\$522,235.60	\$243,663.11	\$417,849.22	\$ 30,711.36	\$ 9,548.64	\$ 53,288.09	\$3,580,151.07	\$ 500

*Includes 6,763.1 miles of Primary Roads and 403.9 miles of Primary Extensions within cities and towns maintained by State.

IOWA STATE HIGHWAY COMMISSION

FINANCIAL STATEMENT

SCHEDULE NO. 14
STATEMENT SHOWING MAINTENANCE, EXPENDITURES AND GRAND TOTAL BY COUNTIES—PRIMARY ROADS,
DECEMBER 1, 1927 TO NOVEMBER 30, 1928

County	Miles	Classi- fication	Superintendence			Refunds to Munic- ipalities	Total Maintenance Proper and Betterments	Grand Total Expenditures for Maintenance	Average Expendi- ture Per Mile	Total Appropri- ation for Budget	Balance in Budget November 30, 1928
			Salary	Expense and Trans- portation	Sub- total						
Adair	56.1	M	\$ 1,350.05	\$ 559.59	\$ 1,909.64	\$ 113.50	\$ 27,895.64	\$ 29,918.78	\$ 533	\$ 33,109.00	\$ 3,190.22
Adams	37.1	E	1,106.96	440.87	1,547.83	33.33	14,282.01	15,863.17	428	16,395.00	531.83
Allamakee	83.8	M	500.48	394.59	895.07	286.00	28,589.68	29,770.75	355	43,000.00	13,229.25
Appanoose	61.0	M	1,380.47	640.94	2,021.41	352.33	25,311.22	27,684.96	454	27,800.00	115.04
Audubon	44.6	E	1,003.29	657.94	2,261.23	83.33	26,872.96	29,217.52	655	40,803.00	11,585.48
Benton	86.6	M	1,568.82	807.48	2,376.30	8.33	35,772.61	38,157.24	441	38,183.00	25.76
Black Hawk	78.3	M	1,520.25	717.58	2,237.83	506.85	33,912.91	36,657.59	468	45,500.00	8,842.41
Boone	82.6	G	1,686.49	1,098.46	2,784.95	233.32	49,729.29	52,747.56	639	60,739.00	7,991.44
Bremer	76.6	M	1,743.01	515.80	2,258.81	166.30	37,063.71	39,488.82	516	39,505.00	16.18
Buchanan	48.1	M	1,042.81	538.32	1,581.13	183.32	24,089.73	25,854.18	538	29,000.00	3,145.82
Buena Vista	73.1	G	888.09	477.58	1,365.67	141.66	40,651.59	42,158.92	577	42,178.00	19.08
Butler	83.2	M	1,715.83	682.78	2,398.61	101.25	40,236.12	42,735.98	514	45,818.00	3,082.02
Calhoun	80.8	G	2,273.35	482.76	2,756.11	241.66	50,433.55	53,431.32	661	53,495.00	63.68
Carroll	75.4	G	1,590.49	899.49	2,489.98	208.33	45,675.04	48,373.35	641	50,100.00	1,726.65
Cass	82.6	E	1,652.62	931.53	2,584.15	223.33	34,722.54	37,530.02	454	40,065.00	2,564.98
Cedar	80.2	M	1,463.54	528.18	1,991.72	268.66	36,529.96	38,790.34	484	38,805.00	14.66
Cerro Gordo	56.8	M	1,103.92	215.91	1,319.83	1,083.29	20,447.43	22,850.55	402	26,715.00	3,864.45
Cherokee	81.3	G	1,303.33	651.30	1,954.63		47,366.24	49,320.87	607	49,330.00	9.13
Chickasaw	66.4	M	1,512.29	547.09	2,059.38	50.00	28,461.52	30,570.90	460	32,196.00	1,625.10
Clarke	47.5	M	1,330.25	311.60	1,641.85	25.00	28,854.12	30,520.97	643	31,692.00	1,171.03
Clay	57.4	G	989.51	464.87	1,454.38	233.33	36,476.29	38,164.00	665	38,175.00	11.00
Clayton	114.2	M	1,262.15	821.91	2,084.06	391.64	43,912.34	46,388.04	406	54,500.00	8,111.96
Clinton	93.8	M	1,532.66	954.62	2,487.28		24,015.31	26,502.59	283	27,450.00	947.41
Crawford	96.1	M	1,019.99	913.21	1,933.20	100.00	39,344.49	41,377.69	431	44,110.00	2,732.31
Dallas	90.4	M	1,035.33	546.03	2,481.36	41.67	50,833.30	53,356.33	590	71,463.00	18,106.67
Davis	48.2	M	1,281.41	573.33	1,854.74	108.00	24,358.92	26,321.66	546	35,635.00	9,313.34
Decatur	55.5	M	1,367.85	405.00	1,772.85	122.68	25,230.09	27,125.62	489	30,737.00	3,611.38
Delaware	69.3	M	719.40	571.00	1,290.40	316.67	36,412.83	38,019.90	549	38,035.00	15.10
Des Moines	40.2	M	1,032.14	688.33	1,720.47	870.80	16,430.49	19,001.76	473	20,890.00	1,888.24
Dickinson	48.8	M	1,103.42	509.62	1,613.04	108.33	41,090.95	42,752.32	876	44,219.00	1,466.68
Dubuque	85.4	M	1,029.61	714.24	2,643.85	799.97	42,141.32	45,585.14	534	45,605.00	19.86
Emmet	44.7	G	991.82	690.64	1,682.46	18.10	40,461.20	42,161.76	943	42,171.00	9.24
Fayette	114.5	M	1,620.93	454.80	2,075.73	466.01	46,701.22	49,242.98	439	54,500.00	5,257.04
Floyd	74.0	M	1,511.37	678.97	2,185.34	170.75	35,717.60	38,073.69	515	38,093.00	19.31
Franklin	67.5	M	1,448.09	656.38	2,104.47	131.50	22,758.40	24,994.37	523	25,450.00	455.63

Fremont	60.6	M	1,470.10	401.73	1,871.83		26,401.96	28,273.73	467	31,973.00	3,699.27
Greene	81.7	M	1,603.24	936.96	2,540.20	275.00	39,067.43	41,882.63	513	45,825.00	3,942.37
Grundy	59.7	G	1,149.36	649.24	1,798.60		37,332.91	39,151.51	656	43,000.00	3,848.49
Guthrie	77.3	M	1,948.96	80.54	2,029.50	133.00	43,152.83	45,315.33	586	45,328.00	12.67
Hamilton	71.1	G	1,624.74	961.40	2,586.14	83.33	36,137.45	38,806.92	546	51,343.00	12,536.08
Hancock	60.3	M	1,089.77	594.57	1,684.34	158.31	22,307.68	24,210.33	401	24,792.00	581.67
Hardin	70.7	G	1,968.55	42.91	2,011.46	349.98	49,638.30	51,999.74	735	52,030.00	30.26
Harrison	78.2	M	1,623.99	848.93	2,472.92	137.99	35,049.03	37,659.94	482	39,578.00	1,918.06
Henry	55.0	M	1,381.28	607.07	1,988.35	225.00	25,687.91	27,901.26	507	29,420.00	1,518.74
Howard	55.1	M	1,629.60	1,254.52	2,884.12	33.33	38,273.40	41,190.85	748	41,207.00	16.15
Humboldt	45.0	G	1,230.21	1,252.91	2,483.12	108.32	32,385.56	34,977.00	777	35,001.00	24.00
Ida	51.8	M	618.14	620.29	1,238.43	25.00	30,352.36	31,615.79	610	35,270.00	3,654.21
Iowa	71.1	M	1,089.68	534.83	1,624.51	33.33	39,249.35	36,907.19	519	38,500.00	1,592.81
Jackson	80.7	M	907.78	241.02	1,148.80	278.51	41,672.56	43,099.87	534	43,110.00	10.13
Jasper	98.8	M	2,160.81	808.45	2,969.26	616.79	57,478.39	61,059.44	618	65,759.00	4,699.56
Jefferson	49.5	M	1,071.62	700.89	1,772.51	250.00	22,998.59	25,021.10	505	25,040.00	18.90
Johnson	74.9	M	1,125.21	612.94	1,738.15	125.73	30,381.79	32,245.67	432	33,850.00	1,064.33
Jones	65.8	M	1,529.44	1,067.42	2,596.86	321.72	37,116.15	40,034.73	608	40,110.00	75.27
Keokuk	83.7	M	1,104.57	328.36	1,432.93		31,034.04	32,466.97	388	41,410.00	8,943.03
Kossuth	104.9	M	1,639.36	507.81	2,147.17	250.00	59,257.57	61,654.74	588	63,394.00	1,739.26
Lee	86.3	M	1,042.37	175.84	1,218.21	545.41	40,935.45	42,699.07	495	45,100.00	400.93
Linn	102.5	M	1,639.65	559.91	2,199.56	1,464.83	64,236.21	67,900.60	662	67,920.00	19.40
Louisa	55.0	M	550.79	595.35	1,146.14		27,749.51	28,895.65	525	31,020.00	2,124.35
Lucas	56.6	M	1,333.31	417.42	1,750.73		23,173.19	24,923.92	440	39,057.00	5,133.08
Lyon	74.3	G	805.73	467.79	1,273.52	108.33	22,698.47	24,080.32	324	34,485.00	10,404.68
Madison	58.3	M	1,212.58	745.76	1,958.34	149.98	25,465.41	27,573.73	473	34,230.00	6,656.27
Mahaska	83.4	M	1,047.76	601.70	1,649.46	466.48	32,600.84	34,716.78	416	41,060.00	6,943.22
Marion	96.1	M	1,804.29	428.94	2,233.23	191.65	45,646.67	48,071.55	500	58,215.00	10,143.45
Marshall	59.5	M	1,012.66	621.36	1,634.02	499.98	33,068.02	35,202.02	592	35,223.00	20.98
Mills	50.0	M	964.56	676.72	1,641.28	58.33	31,137.17	32,836.78	657	32,873.00	36.22
Mitchell	64.0	M	950.93	868.97	1,819.90	158.33	36,307.43	38,284.76	598	38,314.00	29.24
Monona	96.6	M	1,128.91	771.85	1,900.76		22,401.60	24,302.36	252	24,345.00	42.64
Monroe	69.3	M	1,537.42	655.14	2,192.56	378.32	34,952.66	37,523.54	541	46,609.00	9,085.46
Montgomery	49.7	M	1,352.35	107.57	1,459.92	175.00	21,518.27	23,133.19	466	28,926.00	5,772.81
Muscatine	96.9	M	1,429.76	504.16	1,933.92	188.15	43,864.73	45,986.80	475	60,065.00	14,068.20
O'Brien	72.8	M	978.46	724.71	1,703.17	153.71	24,853.82	26,710.71	367	28,960.00	2,229.29
Osceola	44.6	G	545.70	573.80	1,119.50	41.66	23,744.25	24,905.41	558	26,870.00	1,964.59
Page	71.9	M	1,670.59	563.43	2,234.02	206.60	31,864.75	34,365.37	478	36,458.00	2,092.63
Palo Alto	47.9	M	1,110.42	584.77	1,695.19	166.66	28,098.73	29,969.58	625	32,510.00	2,549.42
Plymouth	119.4	M	1,289.20	972.14	2,261.34	46.85	38,440.60	40,748.79	341	40,765.00	16.21
Pocahontas	79.4	G	1,479.58	725.90	2,205.48		44,762.94	46,968.42	592	48,322.00	1,353.58
Polk	104.3	M	1,261.53	789.08	2,050.61	2,037.31	38,164.75	42,252.67	405	42,876.00	623.33
Pottawattamie	121.2	M	3,562.47	1,685.85	5,248.32	966.62	79,328.63	85,543.57	706	86,961.00	1,407.43
Poweshiek	75.0	M	1,422.84	552.13	1,974.97	298.30	50,826.42	53,099.69	708	58,691.00	5,591.31
Ringgold	55.5	M	1,128.25	297.87	1,426.12		24,607.10	26,033.22	469	28,159.00	2,125.78
Sac	100.5	G	1,112.94	582.95	1,695.89	241.66	50,458.61	52,396.16	521	53,237.00	940.84
Scott	91.0	P	1,874.64	1,158.68	3,033.32	806.91	31,966.97	35,804.20	393	36,555.00	759.80

SCHEDULE NO. 14—Continued

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IOWA STATE HIGHWAY COMMISSION

County	Miles	Classi- fica- tion	Superintendence			Refunds to Munic- ipalities	Total Maintenance Proper and Betterments	Grand Total Expenditures for Maintenance	Average Expendi- ture Per Mile	Total Appropri- ation for Budget	Balance in Budget November 30, 1928
			Salary	Expense and Trans- portation	Sub- total						
Shelby.....	48.9	E	1,574.46	627.07	2,201.53		28,811.49	31,013.02	634	44,203.00	13,189.98
Sioux.....	80.6	M	741.71	593.28	1,334.99	98.14	39,728.79	41,161.92	511	48,840.00	7,678.08
Story.....	69.5	G	1,442.29	767.33	2,209.62	512.17	69,304.38	72,026.17	1,036	74,698.00	2,671.83
Tama.....	74.9	M	1,569.85	959.23	2,529.08	233.32	58,329.73	61,092.13	816	61,715.00	622.87
Taylor.....	50.8	E	1,153.43	345.28	1,498.71		22,656.27	24,154.98	475	26,000.00	1,845.02
Union.....	55.6	M	847.68	732.58	1,580.26	224.97	22,699.33	24,504.56	441	32,850.00	8,345.44
Van Buren.....	54.6	M	1,151.20	629.97	1,781.17		40,576.80	42,357.97	776	46,600.00	4,242.03
Wapello.....	43.9	M	987.99	352.07	1,340.06	607.98	14,439.14	16,387.18	373	24,150.00	7,762.82
Warren.....	87.4	M	1,801.13	423.36	2,224.49		48,194.33	50,418.82	577	65,280.00	14,861.18
Washington.....	90.6	M	1,277.83	793.52	2,071.35		50,288.63	52,359.98	578	53,725.00	1,365.02
Wayne.....	60.9	M	1,397.36	384.24	1,781.60	9.60	28,097.81	29,889.01	491	36,292.00	6,402.99
Webster.....	94.7	G	1,540.45	840.47	2,380.92	424.98	63,801.62	66,607.52	703	66,628.00	20.48
Winnebago.....	53.4	G	1,353.45	614.75	1,968.20	116.66	33,480.01	35,564.87	666	36,667.00	1,102.13
Winneshiek.....	99.9	M	1,479.45	1,009.86	2,489.31	408.98	41,925.24	44,823.53	449	45,750.00	926.47
Woodbury.....	120.0	M	1,090.71	998.66	2,089.37	2,549.90	33,023.93	37,663.20	314	37,680.00	16.80
Worth.....	68.7	G	1,124.45	719.35	1,843.80		37,082.52	38,926.12	567	39,508.00	581.88
Wright.....	70.3	G	1,471.94	662.24	2,134.18	133.33	41,060.22	43,327.73	616	45,409.00	2,081.27
Totals.....	*7,165.0		\$133,303.50	\$ 63,627.68	\$196,931.18	\$ 26,322.68	\$3,580,151.07	\$3,803,404.93	\$ 531	\$4,134,932.00	\$ 331,527.07
General expenditures not charged to counties.....								6,549.88			
Grand total expendi- tures.....								\$3,809,954.81			

E—Earth, G—Gravel, P—Paving and M—Mixed (embraces two or more classifications.)

*Includes 6,761.1 miles of primary Roads, and 403.9 miles of primary extensions within cities and towns maintained by state.

State of Iowa
PART TWO
OF
REPORT OF THE
State Highway Commission
FOR THE YEAR
January 1, 1928, to January 1, 1929
ISSUED BY
STATE HIGHWAY COMMISSION
 Commissioners { C. L. NILES, Chairman
 H. E. DEAN
 CARL C. RIEPE
 H. A. DARTING
 T. J. O'DONNELL
 AMES, IOWA
 FEBRUARY 1, 1929

I N D E X

Table Number

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PART TWO

SUMMARY OF THE ANNUAL REPORTS OF COUNTY ENGINEERS

INTRODUCTION

This summary is prepared from the Annual Reports of the County Engineers of the ninety-nine counties of Iowa and submitted in accordance with the provisions of Section 252—Code of 1924.

The County Engineers' reports include detailed statements of all county expenditures for road and bridge work, and also detailed reports of township expenditures in so far as County Engineers were able to obtain data from Township Clerks.

Statements of expenditures are based on warrants issued by the County Auditors for the year 1928. The County Engineers obtain the information contained in their reports from the following sources:

- (a) Total expenditures from County Bridge and County Road Funds, from County Auditor's Warrant Register; detailed classification of these expenditures from County Engineer's Claim Register.
- (b) Financial Statement of the receipts and disbursements in above named funds, from County Treasurer's ledger.
- (c) Statement of county's indebtedness from records of County Auditor and County Treasurer.
- (d) Statement of classified expenditures from all township funds, and financial statement of receipts and disbursements in said funds, from annual reports of township clerks.

This report includes a general summary of the activities of the ninety-nine counties, and twenty-eight summary tables showing in detail the expenditures for road work on the secondary system and bridge work on all roads paid for from county funds, and the present financial condition of the counties.

Summary of Financial Statement for Entire State

ANNUAL REPORT OF COUNTY ENGINEERS

JANUARY 1, 1928, TO JANUARY 1, 1929

Total Expenditures:

During 1928, the counties and townships spent \$21,852,884.34 for road and bridge work on the 96,522.76 miles of road in the county and township road system. The total expenditure for both

road and bridge work is an average of \$226.40 per mile on the total mileage above named. The expenditures are classified as follows:

Bridge work paid for from county funds.....	\$ 5,079,216.01
Road work on county system.....	7,884,723.80
Road work on township roads.....	8,888,944.53

Total\$21,852,884.34

The expenditure for bridge work alone averaged \$52.62 per mile.

The expenditure for road work on the county system averaged \$642.23 and on the township road system \$105.51 per mile.

The following schedule compares expenditures for the past several years, according to purpose for which spent and according to the fund from which derived.

TOTAL EXPENDITURES FROM COUNTY FUNDS FOR ROAD AND BRIDGE WORK

	1924	1925	1926	1927	1928
Bridge work on both county and township roads.....	\$ 5,708,857.97	\$ 5,849,099.87	\$ 5,218,844.20	\$ 5,933,730.32	\$ 5,079,216.01
Road work on county roads.....	4,034,618.48	4,311,239.57	5,317,080.17	6,757,335.00	7,884,723.80
Road work on township roads.....	6,616,022.16	6,839,226.08	7,712,907.28	8,908,926.52	8,888,944.53
Totals.....	\$16,359,498.61	\$16,999,565.52	\$18,248,831.65	\$21,599,991.84	\$21,852,884.34

TOTAL EXPENDITURES FROM COUNTY AND TOWNSHIP FUNDS

	1924	1925	1926	1927	1928
County bridge fund.....	\$ 5,587,351.85	\$ 5,650,146.72	\$ 5,014,914.11	\$ 5,741,006.69	\$ 4,923,028.58
County road fund.....	4,121,386.52	4,376,088.73	4,935,003.20	6,039,573.24	6,935,502.86
Secondary road special assessments.....	95,337.95	44,003.75	373,215.43	426,902.31	462,137.49
Township funds.....	6,490,004.92	6,677,870.81	7,367,443.70	8,563,551.77	8,463,056.71
All other sources.....	65,417.37	251,455.51	558,195.21	828,867.83	1,070,158.70
Totals.....	\$16,359,498.61	\$16,999,565.52	\$18,248,831.65	\$21,599,991.84	\$21,852,884.34

EQUIPMENT AND TOOLS ON HAND

Reports of county engineers show that the several counties owned equipment and tools for road and bridge work valued on January 1, 1929 at \$1,431,553.00. A summary of the principal items of equipment reported is as follows:

Items	Number	Estimated Value
Tractors	250	\$ 428,111.00
Trucks	271	155,163.00
Automobiles	89	14,145.00

Snow Plows	43	34,699.00
Concrete Mixers	87	16,028.00
Heavy Graders	555	152,370.00
Patrol Graders	758	71,577.00
Planers	19	805.00
Maintainers	474	87,323.00
Power Driven Patrols.....	60	106,070.00
Snow Fence .....	...	117,768.00
Pile Drivers	89	12,243.00
Slip Scrapers	898	4,202.00
Drags	1,486	10,857.00
Plows	286	2,957.00
Camp Equipment .....	...	10,315.00
Small Tools and Miscellaneous.....	...	206,920.00

Total\$ 1,431,553.00

A detailed statement of the inventory of equipment in each county is given in Summary Table No. 27, Parts 1 and 2.

This does not include equipment owned by townships which consists principally of blade graders, tractors, drags, wheeled scrapers, slip scrapers, plows and small tools.

TOTAL INDEBTEDNESS FOR ROAD AND BRIDGE WORK County Bridge Fund

	January 1, 1925	January 1, 1926	January 1, 1927	January 1, 1928	January 1, 1929
Outstanding bills.....	\$ 80,491.11	\$ 83,139.93	\$ 49,305.60	\$ 80,029.93	\$ 79,234.15
Outstanding warrants.....	212,819.12	294,648.84	151,735.21	263,167.92	61,034.91
Outstanding bonds.....	13,767,636.46	13,436,071.00	12,531,247.72	11,921,846.68	11,394,314.90
Total bridge indebtedness.....	\$14,060,936.69	\$13,813,859.77	\$12,732,288.53	\$12,265,044.53	\$11,534,573.06

County Road Fund

	January 1, 1925	January 1, 1926	January 1, 1927	January 1, 1928	January 1, 1929
Outstanding bills.....	\$ 74,695.57	\$ 85,701.63	\$ 90,128.55	\$ 159,960.25	\$ 170,592.19
Outstanding warrants.....	111,479.04	93,406.93	83,173.70	193,644.88	115,330.28
Outstanding bonds.....	8,939,305.36	8,480,716.15	7,542,746.93	7,395,413.62	8,088,465.78
Total road indebtedness.....	\$ 9,125,539.97	\$ 8,659,824.71	\$ 7,716,049.18	\$ 7,749,017.75	\$ 8,374,388.25
Total indebtedness.....	\$23,186,476.66	\$22,473,684.48	\$20,448,337.71	\$20,014,062.28	\$19,908,961.30

Cash Balances January 1, 1929:

On January 1, 1929, there were cash balances on hand in the county and township road and bridge funds amounting to \$3,837,671.82 as follows:

County bridge fund.....	\$ 1,081,667.69
County road fund.....	1,312,512.27
Total county balance.....	\$ 2,394,179.96
Township road, drag and drainage funds.....	1,443,491.86
Total	\$ 3,837,671.82

Indebtedness:

On January 1, 1929, there were outstanding bonds, for road and bridge work, amounting to \$19,482,780.77 as follows:

Bridge bonds outstanding.....	\$11,394,314.99
Road bonds outstanding.....	8,088,465.78
Total bonds outstanding.....	\$19,482,780.77
Bonds issued during 1928:	
Bridge bonds	\$ 266,000.00
Road bonds	1,219,000.00
Total	\$ 1,485,000.00
Bonds retired during 1928:	
Bridge bonds	\$ 879,292.70
Road bonds	370,457.30
Total	1,249,750.00
Net increase in bonds outstanding.....	\$ 235,250.00

TOTAL ROAD MILEAGE

A check of the county and township road mileage was made following the passage of the gasoline tax bill by the 41st G. A., and some slight changes appear as from time to time the roads are either relocated or taken into another system. This year it appears that there are 12,277.06 miles of county roads, 84,245.70 miles of township roads which together with the 6,761.10 miles of Primary roads, makes a total of 103,283.86 miles in the state.

A detailed showing as to the mileage of each county will be found in Summary Table No. 28.

CULVERT MATERIAL PURCHASED FOR TOWNSHIPS

Operating under the law which provides that counties may furnish townships with the materials for temporary culverts, the 1,611 townships were furnished material in 1928 at a total cost to the counties of \$465,520.11.

A summary of the cost of material of various classes furnished in 1926, 1927 and 1928 is as follows:

	1926	1927	1928
Corrugated pipe	\$354,801.64	\$395,435.76	\$309,879.86
Concrete pipe	71,341.40	77,676.38	75,867.00
Lumber	57,645.92	83,398.33	71,975.76
Miscellaneous material ..	10,334.16	7,104.63	7,797.49
Total	\$494,123.12	\$563,615.10	\$465,520.11

SUMMARY OF ROAD WORK AND EXPENDITURES FOR ENTIRE STATE**County Road Expenditures:**

During the year 1928 the total expenditures for road work on county roads was \$7,884,723.80, or an average cost of \$642.23 per mile.

The above total expenditure does not include items amounting to \$148,178.36 listed under bridge work for filling of bridges and culverts but paid out of county road fund.

The classification of work, amount and percentage of expenditure for construction, maintenance and special cases is shown below:

Construction		Maintenance		Special Cases	
Amount	%	Amount	%	Amount	%
\$ 3,796,632.39	48.14	\$ 3,495,041.51	44.34	\$ 593,049.90	7.52

A total of 1,697.80 miles of county roads were constructed during 1928 as follows:

Class of Construction	Miles of County Road System
Built to permanent grade.....	753.32
Gravel surfaced	937.01
Hard surfaced	7.47
Total.....	1,697.80

Condition of the county road system January 1, 1929 was as follows:

Condition	County
Miles of earth road not built.....	6,604.13
Miles of earth road built to permanent grade.....	748.76
Miles surfaced with gravel.....	4,911.19
Miles paved	12.98
Total miles in system.....	12,277.06

The total expenditure for repairing and maintaining county roads was \$3,495,041.51 of which \$1,769,563.71 was spent for patrol maintenance including dragging, \$894,735.65 for gang maintenance and \$830,742.15 for equipment and tools, or an average of \$285.00 per mile.

The comparative cost of maintenance of earth, gravel and paved road for the years 1926, 1927 and 1928 is shown by the following table:

	County System	
	Number of Miles	Average Cost Per Mile
Earth		
1926	8,325.25	259.00
1927	7,804.32	277.00
1928	7,352.89	285.00
Gravel		
1926	3,223.43	249.00
1927	4,021.29	280.00
1928	4,911.19	284.00
Paved		
1926	1.99	11.00
1927	5.98	22.00
1928	12.98	49.00

Township Road Work:

Reports from 1,343 of the 1,610 townships were received. Average expenditures for the 267 townships which did not report are included in tabulation in this report.

The 1,343 townships reporting show a total road expenditure of \$7,414,815.22 or an average of \$5,521.08 per township. In 1927 the average township expenditure was \$5,530.06. The township road work for 1928 is classified as follows:

Construction	\$ 2,280,346.18	25.65%
Maintenance	6,512,704.17	73.27%
Special cases	95,894.18	1.08%
Total	\$ 8,888,944.53	100.00%

The township expenditures reported are shown in detail in summary tables Nos. 3, 22 and 25.

Condition of the township road system January 1, 1929, was as follows:

Condition	Township
Miles of earth road not built	78,677.75
Miles of earth road built to permanent grade	471.91
Miles surfaced with gravel	5,096.04
Total miles in system	84,245.70

SECONDARY ROAD DISTRICTS

During 1928, under the provisions of Section 4746, Chapter 241, Code of 1924, 448 secondary road districts were petitioned for in 36 counties proposing the gravel surfacing of 1,246.85 miles of road, of which 130.75 miles was county and 1,116.10 was township.

286 secondary road districts were established, embracing 810.28 miles of road, of which 159.99 was county and 650.29 township. Contracts were let for graveling 662.34 miles, 146.13 on the county and 516.21 on the township system.

Graveling was completed on 612.15 miles, of which 127.67 was county and 484.48 township.

The average cost of gravel surfacing completed on secondary roads was \$1,264.70 per mile.

One-fourth of the cost of graveling has been assessed against lands within the several districts. The average width of assessment districts was 1.50 miles and the assessment per acre was approximately 26 cents.

A more detailed showing as to the counties in which secondary roads were improved under the district plan will be found in Summary Table No. 15.

SUMMARY OF BRIDGE WORK AND EXPENDITURES FOR ENTIRE STATE

For the Year 1928

The total expenditure from county funds for bridges and culverts in the state during 1928 was \$5,079,216.01 or \$854,514.31 less than the total expenditure for like purposes in 1927.

Below is a comparison of the classified expenditures for each of the past five years, including 1928, a comparison of permanent and temporary construction and a statement of the amounts for the various types of construction for the past five years. The amounts given were expended on work classified as shown.

Permanent bridges and culverts include only structures composed entirely of masonry or steel construction. If a part of the work is of temporary nature, the structure is classified under the heading of temporary construction. Pipe culverts not provided with masonry bulkheads are classified as temporary construction.

COMPARISON OF CLASSIFIED PERMANENT BRIDGE AND CULVERT CONSTRUCTION

No.		1924	1925	1926
		Amount	Amount	Amount
1	Concrete culverts (Box, Cir., Arch and pipe)	\$ 1,398,594.81	\$ 1,340,629.64	\$ 1,271,962.66
2	Headwalls and culverts lengthened	78,577.70	85,868.06	73,299.64
3	Concrete slab bridges	55,523.48	97,201.91	55,964.69
4	Concrete abutments	35,000.61	40,754.08	29,506.13
5	Concrete deck cantilever	29,735.84	38,973.64	36,642.88
6	I-beam spans—concrete abutments	384,857.66	349,868.02	256,116.04
7	Pony truss—concrete abutments	390,452.58	490,783.15	289,225.26
8	High steel trusses—concrete abutments	178,856.51	170,664.80	112,366.19
9	Miscellaneous permanent construction	14,904.45	60,205.58	51,284.51
Totals		\$ 2,566,563.64	\$ 2,674,348.88	\$ 2,176,368.00

COMPARISON OF CLASSIFIED TEMPORARY BRIDGE AND CULVERT CONSTRUCTION

No.		1924	1925	1926
		Amount	Amount	Amount
1	Concrete pipe culverts	\$ 36,713.41	\$ 37,575.32	\$ 20,420.49
2	Corrugated pipe culverts	86,279.87	74,779.05	93,993.10
3	I-beam spans—piling abuts.	32,052.67	82,740.42	77,373.42
4	Pony truss on piling—wood floor	83,080.85	65,037.16	35,960.26
5	Wood pile bridges	240,378.26	206,809.54	316,480.47
6	Misc. temporary bridges and culverts	20,107.75	48,503.47	23,442.99
Totals		\$ 498,672.81	\$ 575,445.56	\$ 567,670.73
Grand totals		\$ 3,065,236.45	\$ 3,249,794.44	\$ 2,744,038.73

COMPARISON OF CLASSIFICATION PERMANENT BRIDGE AND CULVERT CONSTRUCTION

No.		1927	1928	Five Year Period
		Amount	Amount	Amount
1	Concrete culverts (Box, Cir., Arch and pipe)	\$ 1,292,367.41	\$ 1,151,130.35	\$ 6,454,684.87
2	Headwalls and culverts lengthened	92,778.88	77,494.08	408,018.36
3	Concrete slab bridges	52,766.97	19,626.56	281,083.61
4	Concrete abutments	24,359.96	15,893.16	145,513.94
5	Concrete deck cantilever	29,361.00	5,840.71	140,554.07
6	I-beam spans—concrete abutments	287,904.14	239,915.34	1,518,661.20
7	Pony truss—concrete abutments	403,923.34	215,766.25	1,790,150.58
8	High steel trusses—concrete abutments	218,165.11	125,063.02	804,515.63
9	Miscellaneous permanent construction	66,989.04	71,070.06	264,513.64
Totals		\$ 2,468,615.85	\$ 1,921,799.53	\$11,807,695.90

COMPARISON OF CLASSIFIED TEMPORARY BRIDGE AND CULVERT CONSTRUCTION

No.		1927	1928	Five Year Period
		Amount	Amount	Amount
1	Concrete pipe culverts	\$ 56,944.63	\$ 38,203.56	\$ 189,947.41
2	Corrugated pipe culverts	95,185.01	105,177.53	455,415.16
3	I-beam spans—piling abuts.	101,245.05	147,630.43	441,110.99
4	Pony truss on piling—wood floor	39,412.85	70,691.40	294,182.52
5	Wood pile bridges	396,773.65	344,929.39	1,565,371.31
6	Misc. temporary bridges and culverts	25,072.52	33,807.92	150,904.65
Totals		\$ 714,633.71	\$ 740,509.23	\$ 3,007,022.04
Grand totals		\$ 3,183,249.56	\$ 2,692,308.76	\$14,904,717.94

COMPARISON OF CLASSIFIED BRIDGE EXPENDITURES
Amounts

Classification	1924	1925	1926	1927	1928	Total Five Year Period
Permanent bridges and culverts—county	\$2,566,563.64	\$2,674,348.88	\$2,173,368.00	\$2,468,615.85	\$1,921,799.53	\$11,807,695.90
Temporary bridges and culverts	498,672.81	575,445.56	567,670.73	714,633.71	740,509.23	3,007,022.04
Repairs—county	1,310,715.64	1,315,248.80	1,273,577.86	1,369,553.34	1,214,328.98	6,483,424.62
Culverts purchased for townships	442,641.17	419,986.64	494,132.12	563,615.10	465,520.11	2,385,896.14
Equipment and unused material	376,422.62	367,202.49	353,682.32	398,782.54	394,463.66	1,890,553.63
Filling bridges and culverts	249,319.00	235,740.36	179,061.72	216,020.97	148,178.36	1,028,330.41
Special cases	264,523.09	261,127.14	174,360.45	202,508.81	194,336.14	1,096,845.63
Totals	\$5,708,857.97	\$5,849,009.87	\$5,218,844.20	\$5,933,730.32	\$5,079,216.01	\$27,789,748.37

Percentages

Classification	1924	1925	1926	1927	1928	Total Five Year Period
Permanent bridges and culverts—county	44.96	45.72	41.72	41.60	37.84	42.49
Temporary bridges and culverts	8.74	9.84	10.88	12.04	14.59	11.14
Repairs—county	22.96	22.49	24.40	23.08	23.91	23.32
Culverts purchased for townships	7.75	7.18	9.47	9.50	9.16	8.59
Equipment and unused material	6.59	6.28	6.78	6.72	7.77	6.80
Filling bridges and culverts	4.37	4.03	3.43	3.64	2.91	3.79
Special cases	4.63	4.46	3.32	3.41	3.82	3.95
Totals	100.00	100.00	100.00	100.00	100.00	100.00

COMPARISON OF EXPENDITURES FOR PERMANENT AND TEMPORARY BRIDGE CONSTRUCTION

	1924		1925		1926	
	Expenditures	%	Expenditures	%	Expenditures	%
Permanent bridges and culverts—county	\$ 2,566,563.64	73.17	\$ 2,674,348.88	72.87	\$ 2,176,368.00	67.21
Temporary bridges and culverts	498,672.81	14.22	575,445.56	15.68	567,670.73	17.53
Culvert materials furnished townships	442,641.17	12.61	419,986.64	11.45	494,123.12	15.26
Totals	\$ 3,507,877.62	100.00	\$ 3,669,781.08	100.00	\$ 3,238,161.85	100.00

	1927		1928		Five Year Period	
	Expenditures	%	Expenditures	%	Expenditures	%
Permanent bridges and culverts—county	\$ 2,468,615.85	65.85	\$ 1,921,799.53	61.44	\$11,807,695.90	68.29
Temporary bridges and culverts	714,633.71	19.07	740,599.23	23.68	3,097,022.04	17.91
Culvert materials furnished townships	563,615.10	15.08	465,520.11	14.88	2,385,886.14	13.80
Totals	\$ 3,746,864.66	100.00	\$ 3,127,918.87	100.00	\$17,290,604.08	100.00

SUMMARY TABLE NO. 1
Expenditures for Bridge and Road Work
County and Township Roads

County	Bridges and Culverts	County Roads	Township Roads	Total
Adair	\$ 57,858.78	\$ 46,132.21	\$ 41,740.93	\$ 145,731.92
Adams	45,903.14	28,068.00	43,119.12	117,120.26
Allamakee	40,889.74	59,144.94	56,771.31	156,805.99
Appanoose	42,586.60	50,898.84	45,109.32	138,594.76
Audubon	46,308.74	46,586.39	44,918.75	137,813.88
Benton	78,539.57	239,094.27	116,587.81	434,221.65
Black Hawk	48,122.97	83,675.26	77,632.53	209,430.76
Boone	34,634.48	34,845.13	141,910.03	211,389.64
Bremer	51,768.67	45,569.83	38,357.56	135,696.06
Buchanan	41,756.80	58,528.88	63,495.10	163,780.78
Buena Vista	16,656.06	57,379.58	107,102.27	181,137.91
Butler	82,863.34	52,386.05	74,980.25	210,229.64
Calhoun	33,256.97	132,618.80	180,102.92	345,978.69
Carroll	44,303.00	58,896.19	67,474.77	170,673.96
Cass	81,837.90	38,356.91	61,138.16	181,333.06
Cedar	67,555.28	265,728.57	64,772.05	398,055.90
Cerro Gordo	20,554.96	79,652.80	89,110.19	189,317.95
Cherokee	65,941.81	54,599.07	68,202.22	188,743.10
Chickasaw	32,790.87	64,094.38	62,087.34	158,972.59
Clarke	33,321.18	22,137.09	44,248.07	99,706.34
Clay	24,126.96	49,198.93	50,708.21	124,044.10
Clayton	47,105.52	123,442.56	47,458.34	218,006.42
Clinton	86,764.56	99,924.86	95,815.21	282,504.63
Crawford	90,121.77	79,703.73	81,412.60	251,238.10
Dallas	71,336.96	82,496.03	147,091.90	300,924.88
Davis	49,061.30	34,733.31	49,375.05	133,169.66
Decatur	37,098.90	38,231.89	26,005.47	101,336.26
Delaware	39,126.12	61,794.44	62,792.87	163,713.43
Des Moines	30,850.43	43,325.11	63,891.87	138,067.46
Dickinson	15,796.73	30,813.68	51,803.44	97,913.85
Dubuque	58,644.49	84,531.95	70,915.55	214,091.99

SUMMARY TABLE NO. 1—Continued

County	Bridges and Culverts	County Roads	Township Roads	Total
Emmet	15,824.38	28,145.23	95,847.25	139,816.86
Fayette	80,574.14	106,668.54	85,770.06	272,012.74
Floyd	40,365.80	82,153.33	80,510.30	203,029.43
Franklin	26,385.60	82,833.52	112,977.72	222,196.84
Premont	48,497.79	46,328.10	79,845.42	165,671.31
Greene	42,667.94	64,167.52	133,167.97	239,943.44
Grundy	23,706.53	98,566.24	69,906.94	192,269.71
Guthrie	55,892.42	81,666.49	105,090.29	242,649.20
Hamilton	22,769.69	112,994.09	108,997.98	244,761.76
Hancock	22,225.82	56,472.09	86,024.92	164,722.83
Hardin	44,090.62	129,195.56	79,338.54	252,624.72
Harrison	78,078.38	50,051.87	77,187.57	205,317.82
Henry	31,541.86	44,006.56	32,344.60	107,893.02
Howard	43,788.77	73,289.65	39,465.54	156,543.96
Humboldt	4,898.34	58,042.29	73,001.82	135,942.45
Ida	52,987.75	82,339.33	56,954.33	192,281.41
Iowa	67,938.18	56,533.07	56,190.05	180,661.30
Jackson	65,224.31	42,704.23	67,265.50	175,194.04
Jasper	106,791.37	144,535.37	61,635.80	312,962.54
Jefferson	46,681.14	39,407.95	63,067.35	149,156.44
Johnson	89,192.76	196,593.09	55,189.52	340,975.37
Jones	50,922.97	76,130.56	59,330.23	177,383.76
Keokuk	63,082.17	68,880.04	75,408.00	207,369.21
Kossuth	32,634.69	72,447.20	114,636.48	219,708.37
Lee	64,124.65	205,792.96	65,792.96	335,710.60
Linn	64,408.93	184,494.94	161,516.41	410,420.28
Louisa	21,447.74	52,722.82	40,579.12	114,749.68
Lucas	40,716.15	28,647.26	47,047.64	116,411.05
Lyon	32,289.91	53,807.12	53,739.82	139,836.85
Madison	55,250.97	43,837.48	75,276.48	174,364.93
Mahaska	65,569.39	61,610.51	86,970.85	214,150.75
Marion	46,104.95	53,625.61	102,427.24	202,157.80
Marshall	62,949.02	74,129.60	65,501.12	202,579.74
Mills	45,209.81	39,739.84	57,422.00	142,371.65
Mitchell	46,803.01	110,528.59	68,889.52	226,221.12
Monona	68,554.18	79,512.11	69,679.68	217,745.97
Monroe	36,576.67	30,649.29	26,907.04	94,133.00
Montgomery	46,765.66	32,577.37	57,971.56	137,314.59
Muscatine	57,034.74	120,300.83	66,584.51	243,920.08
O'Brien	34,273.65	65,624.88	115,560.71	215,459.24
Osceola	19,658.40	41,200.36	52,144.95	112,003.71
Page	92,503.86	60,460.83	50,415.97	203,380.66
Palo Alto	46,245.00	65,529.60	101,823.15	213,597.75
Plymouth	76,347.71	125,132.09	67,146.34	268,626.14
Pocahontas	23,115.56	81,048.95	104,524.44	208,688.95
Polk	86,237.83	176,252.72	79,418.49	342,909.04
Pottawattamie	83,512.97	73,931.41	75,669.91	233,114.29
Poweshiek	67,213.04	157,090.19	89,046.05	313,349.28
Ringgold	48,062.35	40,932.67	59,854.36	148,849.38
Sac	55,967.74	60,193.02	103,925.81	219,086.57
Scott	41,336.81	75,203.01	67,387.40	183,927.22
Shelby	84,134.81	58,255.16	87,747.02	230,136.99
Sioux	70,214.80	116,651.38	99,650.21	286,516.39
Story	52,368.88	83,518.15	114,868.87	250,755.90
Tama	161,773.67	506,175.00	119,484.39	787,433.06
Taylor	67,916.76	57,776.13	47,547.58	173,240.47
Union	31,432.20	29,339.94	31,875.10	92,647.24
Van Buren	45,581.19	31,804.22	49,890.32	127,275.73
Wapello	51,350.97	43,824.11	63,127.34	158,302.42
Warren	48,087.96	49,790.62	45,671.92	143,550.50
Washington	74,049.44	37,358.61	91,734.81	203,142.86
Wayne	36,982.69	57,836.25	42,651.36	117,470.31
Webster	18,828.19	129,706.39	126,445.95	284,980.53
Winnebago	26,197.78	34,175.61	80,756.90	141,130.29
Winneshek	65,163.88	74,519.45	82,628.47	222,311.80
Woodbury	91,244.17	166,869.82	76,984.04	335,098.03
Worth	23,196.62	53,614.08	53,191.88	130,002.58
Wright	28,258.24	58,875.26	107,884.11	195,017.61
Total reported	\$5,079,216.01	\$7,884,723.80	\$7,414,815.22	\$20,378,755.03
267 townships not reported—Estimated			1,474,129.31	1,474,129.31
Totals	5,079,216.01	7,884,723.80	8,888,944.53	22,852,884.34

SUMMARY TABLE NO. 2

Expenditures for Bridges, Culverts, Road Construction and Maintenance County and Township Road System Shown by Funds—Annual Report of County Engineers

County	Bridges and Culverts			County Roads					Grand Total
	Bridge Fund	Road Fund	All Other Sources	Road Fund	Bridge Fund	Secondary Road District Special Assessments	All Other Sources	Total	
Adair	\$ 57,858.78			\$ 46,132.21				\$ 46,132.21	\$ 103,990.99
Adams	44,924.51	\$ 978.63		28,037.30	\$ 60.70			28,098.00	74,001.14
Allamakee	40,880.74			59,144.94				59,144.94	100,024.68
Appanoose	36,946.86		\$ 5,639.74	42,586.60				50,898.84	93,485.44
Audubon	46,308.74			31,271.87			\$ 15,314.52	46,586.39	92,895.13
Benton	78,539.57			239,094.27				239,094.27	317,633.84
Black Hawk	48,122.97			80,584.12			3,091.14	83,675.26	131,798.23
Boone	34,634.48			34,546.26			298.87	34,845.13	69,479.61
Bremer	49,160.40	2,608.18		31,331.45			14,238.38	45,569.83	97,338.50
Buchanan	41,575.18	181.62		58,528.88				58,528.88	100,285.68
Buena Vista	16,656.06			57,379.58				57,379.58	74,035.64
Butler	74,863.34		8,000.00	82,863.34				52,386.05	135,249.39
Calhoun	33,256.97			132,618.80				132,618.80	165,875.77
Carroll	44,203.00			58,896.19				58,896.19	103,099.19
Cass	81,827.99			38,356.91				38,356.91	120,184.90
Cedar	57,918.44		9,636.84	67,552.28			232,176.08	265,728.57	333,283.85
Cerro Gordo	20,554.96			56,970.94		\$ 3,825.05	18,856.81	79,652.80	100,207.76
Cherokee	65,474.60	467.21		54,261.94	337.13			54,599.07	120,540.88
Chickasaw	32,790.87			64,094.38				64,094.38	96,885.25
Clarke	23,990.78	9,330.40		22,137.09				22,137.09	55,458.27
Clay	24,136.96			49,198.93				49,198.93	73,335.89
Clayton	47,105.52			107,157.86			16,284.70	123,442.56	170,548.08
Clinton	86,764.56			99,924.86				99,924.86	186,689.42
Crawford	88,888.60	1,233.17		79,708.73				79,708.73	169,825.50
Dallas	71,336.95			78,981.86		3,514.17		82,496.03	153,832.98
Davis	45,392.87	3,668.43		34,733.31				34,733.31	83,794.61
Decatur	37,098.90			38,231.89				38,231.89	75,330.79
Delaware	39,126.12			61,794.44				61,794.44	100,920.56
Des Moines	30,850.48			43,325.11				43,325.11	74,175.59
Dickinson	13,707.57	2,089.16		30,313.68				30,313.68	46,110.41
Dubuque	57,683.37	961.12		78,858.95			5,673.00	84,531.95	143,176.44
Emmet	15,824.38			28,145.23				28,145.23	43,969.61
Fayette	80,505.02	68.52		105,440.12	8.21		220.21	105,668.54	186,242.68

Floyd	40,365.80			40,365.80				82,153.33	122,519.13
Franklin	26,385.60			26,385.60				82,833.52	109,219.12
Fremont	47,708.69	789.10		48,497.79				46,328.10	94,825.89
Greene	42,667.94			42,667.94				64,167.53	106,835.47
Grundy	23,796.53			23,796.53			6,080.44	98,566.24	122,362.77
Guthrie	55,892.42			55,892.42			7,992.80	81,666.49	137,558.91
Hamilton	22,769.69			22,769.69				112,994.09	135,763.78
Hancock	22,225.82			22,225.82				56,472.09	78,697.91
Hardin	44,030.62			44,030.62			87,772.86	129,195.56	173,226.18
Harrison	68,257.60		9,820.78	78,078.38				50,051.87	128,130.25
Henry	31,541.86			31,541.86				44,006.56	75,548.42
Howard	43,788.77			43,788.77				73,289.65	117,078.42
Humboldt	4,898.34			4,898.34		1,500.00	11,081.02	58,042.29	62,940.63
Ida	52,987.75			52,987.75				82,339.33	135,327.08
Iowa	67,938.18			67,938.18				82,339.33	124,471.25
Jackson	65,224.31			65,224.31				56,533.07	107,028.54
Jasper	103,583.62	2,372.15	835.60	106,791.37			40,911.52	144,535.37	251,326.74
Jefferson	44,529.56	2,151.58		46,681.14				39,407.95	86,089.09
Johnson	54,209.74		34,983.02	89,192.76		1,064.95	118,606.50	196,593.09	285,785.85
Jones	50,249.32	673.65		50,922.97				76,130.56	127,053.53
Keokuk	63,082.17			63,082.17				68,880.04	131,962.21
Kossuth	32,624.69			32,624.69				72,447.20	105,071.89
Lee	61,980.27	2,144.38		64,124.65			158,850.65	205,702.96	269,917.61
Linn	64,408.93			64,408.93			81,221.86	184,494.94	248,909.87
Louis	21,447.74			21,447.74				52,722.82	74,170.56
Lucas	40,716.15			40,716.15				28,647.96	69,363.41
Lyon	32,286.91			32,286.91				53,807.12	86,094.03
Madison	50,730.02	4,520.95		55,250.97		905.55		43,837.48	99,088.45
Mahaska	64,023.69	1,545.70		65,569.39				61,610.51	127,179.90
Marion	41,440.10	4,664.85		46,104.95				53,625.61	99,730.56
Marshall	62,773.02	176.00		62,949.02		100.00	1,583.74	74,129.60	137,078.62
Mills	45,200.81			45,200.81				30,730.84	75,940.65
Mitchell	46,803.01			46,803.01				110,528.59	157,331.60
Monona	68,554.18			68,554.18				79,512.11	148,066.29
Monroe	33,611.91	1,403.30	1,561.56	35,576.67			1,653.94	30,649.29	67,225.16
Montgomery	45,344.86	1,420.80		46,765.66				32,577.37	79,343.03
Muscatine	25,065.06		31,969.68	57,034.74				120,300.83	177,335.57
O'Brien	34,273.65			34,273.65				65,624.88	99,898.53
Osceola	19,114.10	544.30		19,658.40				41,200.36	60,858.76
Page	92,503.86			92,503.86				60,460.83	152,964.69
Palo Alto	46,245.00			46,245.00			11,606.41	65,529.60	111,774.60
Plymouth	76,347.71			76,347.71		42.25		125,132.00	201,479.80
Pocahontas	23,113.56			23,113.56	2,608.72	13,327.95	8,049.35	81,043.95	104,157.51
Polk	83,404.69	2,833.14		86,237.83				176,252.72	262,490.55
Pottawattamie	83,512.97			83,512.97				73,931.41	157,444.38
Poweshiek	47,768.21	19,446.83		67,215.04				157,090.19	224,305.23
Ringgold	44,701.61	3,360.74		48,062.35				40,932.67	88,995.02
Sac	55,967.74			55,967.74			5,334.13	50,193.02	106,160.76
Scott	41,326.81			41,326.81				75,203.01	116,529.82

SUMMARY TABLE NO. 2—Continued

County	Bridges and Culverts			County Roads					Grand Total
	Bridge Fund	Road Fund	All Other Sources	Road Fund	Bridge Fund	Secondary Road District Special Assessments	All Other Sources	Total	
Shelby	75,439.77	8,695.04		84,134.81	58,255.16			58,255.16	142,389.97
Sioux	69,600.17	614.63		70,214.80	111,572.68		5,078.70	116,651.38	186,866.18
Story	48,543.35	3,825.53		52,368.88	83,318.15			83,318.15	135,687.03
Tama	161,773.67			161,773.67	506,175.00			506,175.00	667,948.67
Taylor	66,838.13	1,078.63		67,916.76	57,253.57	522.56		57,776.13	125,692.89
Union	31,432.20			31,432.20	29,339.94			29,339.94	60,772.14
Van Buren	45,581.19			45,581.19	31,804.22			31,804.22	77,385.41
Wapello	48,034.02	3,316.95		51,350.97	43,824.11			43,824.11	95,175.08
Warren	37,323.56	10,764.40		48,087.96	49,790.62			49,790.62	97,878.58
Washington	74,049.44			74,049.44	37,358.61			37,358.61	111,408.05
Wayne	36,982.60			36,982.60	37,836.25			37,836.25	74,818.85
Webster	18,828.19			18,828.19	89,706.39	40,000.00		129,706.39	148,534.58
Winnebago	26,197.78			26,197.78	34,175.61			34,175.61	60,373.39
Winneshiek	65,163.88			65,163.88	69,797.19		4,722.26	74,519.45	139,683.33
Woodbury	90,075.48	568.69		91,244.17	166,869.82			166,869.82	258,113.99
Worth	23,196.62			23,196.62	53,614.03			53,614.03	76,810.65
Wright	28,258.24			28,258.24	58,875.26			58,875.26	87,133.50
Totals	\$4,878,271.11	\$ 98,497.68	\$102,447.22	\$5,079,216.01	\$6,837,005.18	\$ 44,757.47	\$ 78,632.56	\$924,328.59	\$7,884,723.80

SUMMARY TABLE NO. 3

Expenditures for Road Construction and Maintenance on Township Road System Shown by Funds.
Annual Report of County Engineers.

County	No. Townships in County	No. Townships Reporting	Township Road Fund	Township Drag Fund	Township Drainage Fund	County Funds on Township Roads in Secondary District	Secondary Road District Special Assessment Funds	All Other Sources	Total
Adair	18	12	\$ 27,398.94	\$ 13,421.69	\$ 920.30				\$ 41,740.93
Adams	12	8	33,566.40	9,356.59	196.13				43,119.12
Allamakee	18	18	56,771.31						56,771.31
Appanoose	17	13	31,666.47	10,097.23	3,345.62				45,109.32
Audubon	12	9	31,932.31	12,956.49	29.95				44,918.75
Benton	20	19	83,587.57	26,105.29	6,894.95				116,587.81
Black Hawk	18	17	57,507.45	17,240.98	2,884.10				77,632.53
Boone	17	15	84,962.18	13,138.83	6,241.07	\$ 17,711.42	\$ 19,856.53		141,910.03
Bremer	14	8	32,116.98	4,705.38	1,535.20				38,357.56
Buchanan	16	14	49,816.77	12,736.60	941.73				63,495.10
Buena Vista	17	14	42,234.68	9,807.11	8,878.98	30,814.72	15,306.78		107,162.27
Butler	16	16	61,006.39	13,932.86	41.00				74,980.25
Calhoun	16	16	108,580.04	24,264.31	47,258.57				180,102.92
Carroll	16	13	52,034.92	14,650.37	789.48				67,474.77
Cass	16	13	43,431.12	17,707.04					61,138.16
Cedar	17	12	45,845.62	18,841.17	85.26				64,772.05
Cerro Gordo	16	13	63,379.39	10,417.03	9,755.81	3,984.96	1,573.00		89,110.19
Cherokee	16	14	54,535.33	13,602.24	64.65				68,202.22
Chickasaw	12	12	47,625.36	11,768.43	2,693.55				62,087.34
Clarke	12	10	32,730.17	11,517.90					44,248.07
Clay	16	8	34,069.24	6,950.73	9,658.24				50,708.21
Clayton	22	9	35,536.55	10,529.72	1,392.07				47,458.34
Clinton	20	18	72,312.61	21,658.52	1,844.08				95,815.21
Crawford	20	14	57,924.47	16,824.04	6,864.09				81,612.60
Dallas	16	16	89,428.77	24,404.63	10,521.20	11,368.65	11,368.65		147,091.90
Davis	15	15	36,217.56	13,157.49					49,375.05
Decatur	16	8	18,961.40	5,627.59				\$ 1,416.48	26,005.47
Delaware	16	14	49,272.79	12,337.35	1,182.82				62,792.87
Des Moines	13	13	47,287.01	16,604.86					63,891.87
Dickinson	12	9	37,295.23	5,493.84	9,614.37				51,803.44
Dubuque	17	13	60,844.32	10,071.23					70,915.55
Emmet	12	11	45,128.76	6,962.22	9,425.25	26,448.33		7,852.69	95,847.25
Fayette	20	18	68,863.65	14,900.86	2,006.55				85,770.06
Floyd	12	11	54,046.25	9,245.08	7,576.50	4,921.21	4,921.26		80,510.30

SUMMARY TABLE NO. 3—Continued

County	No. Townships in County	No. Townships Reporting	Township Road Fund	Township Drag Fund	Township Drainage Fund	County Funds on Township Roads in Secondary District	Secondary Road District Special Assessment Funds	All Other Sources	Total
Franklin	16	15	80,482.53	16,057.27	16,437.92				112,977.72
Fremont	13	13	52,361.11	16,652.62	1,831.69				70,845.42
Greene	15	14	88,000.48	17,713.34	27,394.15				133,107.97
Grundy	14	13	54,595.61	12,969.26	2,342.07				69,906.94
Guthrie	17	17	74,437.10	19,534.20	6,846.59	2,090.85	2,181.55		105,000.29
Hamilton	16	16	64,925.17	17,798.87	14,416.14	5,928.90	5,928.90		108,997.98
Hancock	16	14	62,560.84	12,188.14	11,275.94				86,024.92
Hardin	15	14	54,503.03	19,108.70	5,636.81				79,338.54
Harrison	20	17	55,939.02	19,093.16	2,164.39				77,187.57
Henry	12	8	21,832.45	10,512.15					32,344.60
Howard	12	10	31,241.06	7,104.27	1,119.31				39,465.54
Humboldt	12	12	51,418.95	11,013.64	8,449.03	2,120.20			73,001.82
Ida	12	12	45,737.37	11,216.96					56,954.33
Iowa	16	12	39,849.10	16,340.95					56,190.05
Jackson	18	15	51,177.56	16,087.94					67,265.50
Jasper	19	10	44,474.35	16,684.21	477.24				61,635.80
Jefferson	12	12	45,170.66	17,876.99	19.70				63,067.35
Johnson	21	11	36,178.64	14,055.98	4,954.90				55,189.52
Jones	16	10	40,239.52	9,159.05	931.66				50,330.23
Keokuk	17	15	54,285.24	21,117.76					75,403.00
Kossuth	28	14	50,331.27	10,743.08	17,931.09	11,877.01	23,754.03		114,636.48
Lee	15	15	47,280.84	18,495.58	16.57				65,792.99
Linn	20	20	106,346.38	21,690.08	3,451.19	15,014.38	15,014.38		161,516.41
Louisa	12	9	28,461.43	11,715.50	402.19				40,579.12
Lucas	12	10	35,563.05	11,484.59					47,047.64
Lyon	18	17	44,915.83	8,804.99					53,720.82
Madison	16	16	57,188.62	17,148.27	939.59				75,276.48
Mahaska	18	18	62,967.98	21,802.94	2,199.93				86,970.85
Marion	15	11	68,647.75	25,653.84	8,125.65				102,427.24
Marshall	18	13	45,440.89	15,192.74	1,065.86			4,101.63	65,801.12
Mills	13	13	41,515.80	12,499.46	2,929.60			477.14	57,422.00
Mitchell	16	16	55,510.88	7,799.60	5,579.04				68,889.52
Monona	19	16	47,581.01	12,438.69	659.98				60,679.68
Monroe	12	7	20,389.12	5,563.07	954.85				26,907.04
Montgomery	12	12	46,006.76	11,884.95	82.85				57,971.56
Muscatine	14	14	49,525.96	15,211.57	534.38			1,312.60	66,584.51
O'Brien	16	16	80,997.14	16,536.83	2,013.78	8,006.47	8,006.49		115,560.71

Osceola	12	12	34,889.22	8,083.72	9,172.01				52,144.95
Page	16	12	35,582.26	14,620.09	213.62				50,415.97
Palo Alto	16	15	42,663.04	11,679.91	10,495.58	25,372.12	11,612.50		101,823.15
Plymouth	24	15	51,777.67	15,368.67					67,146.34
Pocahontas	18	17	73,715.57	15,040.98	13,585.04		2,182.85		104,524.44
Polk	19	11	55,488.96	12,863.99	2,065.54				70,418.49
Pottawattamie	29	13	64,102.93	9,141.24	2,425.74				75,669.91
Poweshiek	16	15	66,204.84	16,432.82	6,408.39				89,046.05
Ringgold	17	11	47,678.49	8,428.26	666.68			3,080.23	59,854.36
Sac	16	16	56,952.88	19,190.41	5,364.53	5,334.13	17,083.86		103,925.81
Scott	15	15	54,411.71	12,911.19	64.50				67,387.40
Shelby	16	16	60,225.33	25,411.54	2,110.15				87,747.02
Sioux	23	22	79,798.14	18,621.07	1,231.00				99,650.21
Story	16	16	69,762.28	18,044.59	9,114.43			17,947.57	114,868.87
Tama	21	19	91,539.87	20,607.40	7,337.12				119,484.39
Taylor	17	14	35,582.98	11,964.60					47,547.58
Union	12	6	25,517.29	6,357.81					31,875.10
Van Buren	14	14	44,076.78	5,813.54					49,890.32
Wapello	14	14	47,777.34	14,302.14	1,047.86				63,127.34
Warren	16	10	31,948.33	12,063.95	1,629.64				45,671.92
Washington	15	14	64,540.10	27,194.71					91,734.81
Wayne	16	13	31,741.45	10,806.90	103.01				42,651.36
Webster	23	21	88,641.05	19,286.97	18,397.02	10,120.91			136,445.95
Winnebago	12	12	53,841.18	10,343.27	16,572.45				80,756.90
Winneshiek	20	15	64,758.76	17,869.71					82,628.47
Woodbury	23	18	59,373.59	15,729.78	1,830.67				76,934.04
Worth	12	11	39,918.62	7,602.92	5,670.34				53,191.88
Wright	16	16	68,729.71	10,922.05	28,232.35				107,884.11
Total reported	1,610	1,343	\$5,227,407.69	\$1,384,751.87	\$ 446,562.28	\$ 181,114.26	\$ 138,790.78	\$ 36,188.34	\$ 7,414,815.22
267 townships not reporting—Est.		267	1,039,253.80	275,300.63	88,780.44	36,007.08	27,592.81	7,194.55	1,474,129.31
Grand totals	1,610	1,610	\$6,266,661.49	\$1,660,052.50	\$ 535,342.72	\$ 217,121.34	\$ 166,383.59	\$ 43,382.89	\$ 8,888,944.53

SUMMARY TABLE NO. 4

Expenditures for Bridges and Culverts, Primary, County and Township Roads—Classified.
Annual Report of County Engineers.

County	Permanent Bridges and Culverts	Temporary Bridges and Culverts	Repair Work	Culvert Ma- terial Pur- chased for Townships	Equipment and Unused Material	Filling Bridges and Culverts	Special Cases	Total
Adair	\$ 20,280.19	\$ 8,737.83	\$ 3,399.51	\$ 10,208.62	\$ 11,902.09		\$ 3,330.54	\$ 57,838.78
Adams	7,153.30	9,689.35	12,705.24	7,747.10	7,132.32	48.50	1,427.33	45,903.14
Allamakee	18,567.33	1,272.70	9,764.90	4,816.04	4,639.81	112.00	1,716.96	40,889.74
Appanoose	1,655.91	2,155.95	12,951.22	8,081.72	15,712.97	278.50	1,750.33	42,586.60
Audubon	4,297.02	21,291.06	8,121.31	1,987.70	8,033.54	2,491.71	86.40	46,308.74
Benton	52,473.48	5,811.08	10,140.60	6,158.38	1,529.83		2,426.20	78,539.57
Black Hawk	27,271.66	1,380.95	13,066.15	3,960.64	1,701.17	248.30	494.10	48,122.97
Boone	19,690.22	594.26	4,362.19	2,990.71	2,262.11	2,965.75	1,769.24	34,634.48
Bremer	22,812.12	3,085.53	13,312.14	4,197.69	6,789.79	552.55	1,018.85	51,708.67
Buchanan	20,322.83	1,830.87	9,790.02	2,379.99	2,261.47	1,112.45	4,069.17	41,756.80
Buena Vista	12,297.46	114.43	769.91	1,907.17	1,432.78		134.31	16,656.06
Butler	52,239.41	6,994.27	12,302.57	2,287.43	2,419.04	6,269.79	350.83	82,863.34
Calhoun	166.00	9,747.76	3,186.91	6,433.35	13,066.55	23.40	633.00	33,256.97
Carroll	12,720.48	10,518.93	6,861.76	7,705.05	2,335.19	294.67	3,766.92	44,203.00
Cass	24,122.46	30,652.25	18,010.35	4,529.89	1,715.02	1,993.70	804.32	81,827.99
Cedar	31,795.59	2,020.38	29,425.55	3,158.45		479.47	675.84	67,555.28
Cerro Gordo	9,053.73	908.04	1,766.09	4,064.89	4,762.21			20,554.06
Cherokee	47,197.36	2,463.59	4,437.36	5,227.62	3,941.99	1,463.15	1,210.74	65,941.81
Chickasaw	561.17	13,963.45	8,374.59	3,382.70	2,213.69		4,295.27	32,700.87
Clarke	6,715.78	1,983.25	7,343.85	4,819.24	2,874.22	8,729.86	854.98	33,321.18
Clay	748.58	3,622.63	4,636.68	12,867.12	1,324.90	511.50	425.55	24,136.96
Clayton	29,949.32	652.91	8,231.80	5,220.10		2,983.89	67.50	47,105.52
Clinton	62,143.08	1,546.77	11,460.19	5,084.65		2,370.03	4,159.84	86,764.56
Crawford	20,983.84	20,251.60	19,691.31	9,838.89	12,508.56	2,090.32	4,067.15	90,121.77
Dallas	29,688.87	7,507.17	9,550.50	6,600.93	7,875.18	3,948.52	6,075.78	71,336.95
Davis	12,421.76	839.75	18,140.64	5,411.90	6,787.47	3,668.43	1,791.35	49,061.30
Decatur	899.23	3,005.31	19,239.08	3,558.14	7,607.07		2,790.07	37,098.90
Delaware	22,164.94	6,652.43	4,483.68	3,370.85	1,445.48	815.74	193.00	39,126.12
Des Moines	12,944.94	1,155.00	5,287.72	3,962.98	5,278.07	47.50	2,174.21	30,850.48
Dickinson	12,392.28		116.18	2,516.88	437.61	333.78		15,796.73
Dubuque	28,929.10	1,120.72	19,502.65	4,760.98	1,171.03	2,057.40	1,102.61	58,644.49
Emmet	10,005.34	560.50	2,339.67	1,556.28	1,127.49		235.10	15,824.38
Fayette	39,540.46	339.55	19,814.01	2,964.52	11,114.05	2,984.00	3,817.55	80,574.14
Floyd	22,029.36	5,746.08	2,778.98	2,915.95	6,665.43	230.00		40,365.80
Franklin	16,469.07	818.06	4,076.56	2,361.13	2,451.18	48.95	160.65	26,285.60
Fremont	3,029.16	4,394.35	22,351.23	7,942.54	5,657.74	819.80	4,302.97	48,497.79

Greene	18,596.67	2,823.91	14,058.74	3,651.81	1,709.29	320.20	1,508.32	42,667.94
Grundy	5,463.70	8,163.57	5,154.76	2,747.74	25.06	44.00	2,197.70	23,796.03
Guthrie	4,223.02	10,957.03	17,953.00	6,604.95	9,164.95	6,396.48	592.90	55,892.42
Hamilton	10,216.21	1,818.64	8,800.17	1,678.53		122.77	133.37	22,769.09
Hancock	13,369.10	1,256.00	3,909.65	2,494.31	900.61	206.15		22,225.82
Hardin	16,576.78	14,478.79	4,409.27	2,940.00	1,078.50	2,880.04	1,667.24	44,030.62
Harrison	675.00	19,750.83	45,392.67	5,970.72	1,460.89	121.50	4,706.77	78,078.38
Henry	12,574.93	6,055.03	5,215.79	4,371.04	1,023.79	190.95	2,110.33	31,541.86
Howard	19,980.96	5,300.16	4,876.35	2,789.94	3,513.64	6,480.34	847.38	43,788.77
Humboldt		794.46	1,927.61	743.35	1,408.27		24.65	4,808.34
Ida	13,586.65	16,430.43	8,874.00	4,132.13	5,869.18	1,741.66	2,353.70	52,987.75
Iowa	25,971.10	8,798.80	25,741.64	3,326.54	915.98	1,666.96	1,522.16	67,968.18
Jackson	8,738.88	4,317.64	41,369.30	7,444.65	115.29	1,237.38	1,431.17	65,224.31
Jasper	62,186.89	25,950.19	10,383.31	288.59	4,393.07	3,555.32	34.00	106,791.37
Jefferson	11,061.39	6,060.12	11,130.20	6,199.97	6,595.99	2,151.58	2,881.89	46,681.14
Johnson	47,605.09	16,095.35	12,845.82	4,801.64	3,068.13	54.45	4,722.28	89,192.76
Jones	13,440.46	2,783.53	28,627.24	3,248.79		456.00	2,366.95	50,922.97
Keokuk	27,936.52	2,142.29	15,980.68	8,369.77	7,362.48	6.00	1,284.43	63,082.17
Kossuth	8,144.73	9,106.66	8,730.05	3,781.12	1,450.00	358.03	1,054.10	32,624.69
Lee	16,023.98	12,917.33	20,579.69	3,300.36	8,541.91	2,144.38	717.00	64,124.65
Linn	27,184.40	15,642.23	8,424.75	9,722.64	947.33	531.65	1,935.93	64,408.93
Louis	4,224.10	1,328.78	10,416.60	2,853.80	240.99	504.61	1,878.86	21,447.74
Lucas	515.50	10,272.61	14,710.33	10,207.02	3,345.39	723.80	941.50	40,716.15
Lyon	7,147.27	1,132.40	10,227.75	5,754.99	7,752.70	211.80	69.00	32,286.91
Madison	17,517.36	711.48	21,141.50	5,124.80	6,222.88	4,532.95		55,250.97
Mahaska	49,037.63	602.40	7,713.02	2,803.11	1,855.88	2,628.50	868.85	65,569.39
Marion	16,033.68	7,301.49	11,499.10	4,471.02	1,906.06	4,664.85	228.75	46,104.95
Marshall	35,945.28	5,897.01	6,141.65	5,665.77	5,306.84	1,487.65	2,504.82	62,949.02
Mills	2,947.45	3,168.71	22,914.30	6,629.63	3,805.35	1,094.25	4,650.12	45,209.81
Mitchell	18,604.19		26,556.90		1,616.92		25.00	46,803.01
Monona	4,059.65	26,545.40	18,834.62	4,571.94	8,932.71	1,979.75	3,632.11	68,554.18
Monroe		12,615.35	8,900.47	4,819.64	5,421.41	2,497.22	2,232.58	36,576.67
Montgomery	13,634.56	4,700.72	11,130.63	7,671.63	565.93	3,223.55	5,838.64	46,765.66
Muscatine	30,397.53	7,387.16	4,481.14	2,182.69	2,061.91	695.80	9,828.51	57,094.74
O'Brien	16,083.56	284.69	9,636.54	2,819.71	5,103.35	50.50	295.30	34,273.65
Osceola	8,563.16	7,542.16	1,130.03	1,827.92	595.13			19,658.40
Page	12,945.48	20,714.78	32,543.33	5,266.51	8,644.48		12,389.28	92,503.86
Palo Alto	38,556.14	839.17	1,435.27	3,939.02	68.87	490.55	915.98	46,245.00
Plymouth	23,536.30	15,010.96	16,695.45	10,395.73	8,269.53	38.55	2,403.19	76,347.71
Pocahontas	10,604.56	1,874.20	5,695.57	2,717.39	1,500.38	194.48	526.98	23,113.56
Polk	44,971.03	15,006.49	18,517.08	4,910.09		2,833.14		86,237.83
Pottawattamie		24,697.39	40,955.31	7,231.33	9,049.65	231.60	1,437.69	83,512.97
Poweshiek	38,178.87	3,292.88	19,202.88	4,413.56		704.10	1,420.85	67,213.04
Ringgold	6,900.39	4,391.82	15,540.33	12,575.60	5,203.47	2,840.44	530.30	48,062.35
Sac	32,777.67		6,468.03	3,286.26	7,010.36	4,113.87	2,311.45	55,967.74
Scott	17,466.42	1,790.39	7,843.12	2,741.29	9,488.57	568.95	1,498.07	41,326.81
Shelby	250.27	31,243.42	17,556.70	12,281.86	7,388.33	9,213.22	6,201.01	84,134.81
Sioux	26,386.05	16,821.25	5,187.54	12,437.84	4,688.98	669.50	4,023.63	70,214.80
Story	29,171.41	8,813.35	4,161.03	1,824.00	2,123.56	2,344.70	3,930.83	52,368.88

SUMMARY TABLE NO. 4—Continued

County	Permanent Bridges and Culverts	Temporary Bridges and Culverts	Repair Work	Culvert Ma- terial Pur- chased for Townships	Equipment and Unused Material	Filling Bridges and Culverts	Special Cases	Total
Tama	108,085.51	27,296.69	15,209.51	8,751.87	111.65	1,917.64	400.80	161,773.67
Taylor	44,966.40	2,035.73	12,150.70	1,045.73	6,279.17		1,439.03	67,916.76
Union	5,310.90	5,293.23	7,067.12	5,351.90	6,025.31		2,583.74	31,432.20
Van Buren	10,206.34	3,759.55	25,630.03	3,037.82	2,472.31		475.14	45,581.19
Wapello	6,970.69	2,080.74	20,164.45	4,048.46	8,183.49	3,316.95	6,586.19	51,350.97
Warren	12,840.83	6,155.87	13,461.75	2,541.42	463.86	10,764.40	1,859.83	48,087.96
Washington	37,636.32	4,774.98	12,487.08	5,340.69	5,884.92	1,302.86	6,622.59	74,049.44
Wayne	9,275.05	9,118.33	7,073.43	1,950.44	9,165.90		399.45	36,982.60
Webster		6,422.86	8,040.40	2,666.64	1,384.87	313.42		18,828.19
Winnebago	17,000.38	182.00	5,299.77	764.64	2,703.01	217.38	30.00	26,197.78
Winneshiek	38,194.84	4,993.36	14,713.76	4,724.58	1,143.42	575.90	818.02	65,163.88
Woodbury	11,406.45	46,151.75	19,778.39	4,968.03	3,044.93	323.70	5,570.92	91,244.17
Worth	17,500.52	1,510.00	2,028.37	1,371.03	629.87		156.83	23,196.62
Wright	15,971.40	1,872.16	7,152.21	1,956.00	989.91	158.28	158.28	28,256.24
Totals	\$1,921,799.53	\$ 740,599.23	\$1,214,328.98	\$ 465,520.11	\$ 394,463.66	\$ 148,178.36	\$ 194,326.14	\$ 5,079,216.01

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IOWA STATE HIGHWAY COMMISSION

SUMMARY TABLE NO. 5

Classification of Permanent Bridge and Culvert Construction for Which Warrants Were Issued in 1928—Primary, County, and Township Roads—Annual Report of County Engineers.

County	Concrete Culverts	Head Walls Constructed & Culverts Lengthened	Concrete Slab Bridges	Concrete Abutments	Concrete Deck Cantilever	I-Beam Spans Concrete Abutments	Pony Truss Concrete Abutments	High Trusses, Concrete Abutments	Miscel- laneous Permanent Bridges & Culverts	Total
Adair	\$ 17,310.33	\$ 359.27				\$ 2,610.59				\$ 20,280.19
Adams	7,153.30									7,153.30
Allamakee	15,666.37		\$ 1,443.61			509.41	\$ 300.00		\$ 647.94	18,567.33
Appanoose		1,026.49				629.42				1,655.91
Audubon	3,117.26	1,179.76								4,297.02
Benton	36,914.48						15,559.00			52,473.48
Black Hawk	16,362.18	543.24							10,366.24	27,271.66
Boone	5,494.73	622.72	2,364.43			5,130.24	6,078.10			19,690.22
Bremer	9,302.20	563.12				6,445.20	6,501.60			22,812.12
Buchanan	8,345.38	111.00		\$ 4,982.45				\$ 6,884.00		20,322.83
Buena Vista	11,364.25	280.27							852.94	12,297.46
Butler		314.14				11,522.20	18,416.85	21,986.22		52,239.41
Calhoun									166.00	166.00
Carroll	12,446.48	274.00								12,720.48
Cass	24,122.46									24,122.46
Cedar	27,729.73								4,065.86	31,795.59
Cerro Gordo	5,409.15	2,424.07				1,220.51				9,053.73
Cherokee	38,449.57	364.39				8,383.40				47,197.36
Chickasaw	561.17									561.17
Clarke	6,490.78	225.00								6,715.78
Clay	194.73	353.85							200.00	748.58
Clayton	22,723.02	473.20				6,753.19				29,949.32
Clinton	16,082.32	1,064.50				17,205.86	22,196.20	4,724.20		62,143.08
Crawford	20,983.94									20,983.94
Dallas	14,402.50	283.56				2,983.91		12,018.90		29,688.87
Davis	12,421.76									12,421.76
Decatur	899.23									899.23
Delaware	9,077.24	323.00				6,935.70	5,759.00			22,164.94
Des Moines	11,663.61					1,281.33				12,944.94
Dickinson	2,571.78	315.00		4,878.89			4,626.61			12,392.28
Dubuque	9,424.87						19,504.23			28,929.10
Emmet	1,902.84	242.55			\$ 2,597.65	5,262.30				10,005.34
Fayette	14,634.87	1,065.48	\$ 10,710.87		3,243.06	9,886.18				39,540.46
Floyd	5,480.88	859.43				4,878.60			7,830.45	22,029.36
Franklin	6,628.43	219.20					9,621.44			16,469.07
Fremont	3,029.16									3,029.16

REPORT OF COUNTY ENGINEERS

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SUMMARY TABLE NO. 5—Continued

County	Concrete Culverts	Head Walls Constructed & Culverts Lengthened	Concrete Slab Bridges	Concrete Abutments	Concrete Deck Cantilever	I-Beam Spans Concrete Abutments	Pony Truss Concrete Abutments	High Trusses Concrete Abutments	Miscellaneous Permanent Bridges & Culverts	Total
Greene	4,922.97	185.50					13,417.30			18,595.67
Grundy	5,396.89	66.81					63.10			5,463.70
Guthrie	4,159.92									4,223.02
Hamilton	6,294.06	1,270.00				2,632.15				10,216.21
Hancock	7,005.10	505.00				4,939.00				13,509.10
Hardin	8,069.77	2,174.53							6,332.48	16,576.78
Harrison	675.00									675.00
Henry	9,590.61	113.65		1,183.25					1,687.42	12,574.93
Howard	645.61	2,171.35						17,164.00		19,980.96
Humboldt										
Ida	13,450.97	135.68								13,586.65
Iowa	19,084.12					6,698.95	7,188.08	8,738.88		25,971.10
Jackson										8,738.88
Jasper	36,465.30	3,577.28				22,144.31				62,186.89
Jefferson	11,105.69	555.70								11,661.39
Johnson	31,076.79	5,690.45				10,828.85				47,605.09
Jones	8,816.96					2,864.00		1,759.50		13,440.46
Keokuk	27,936.52									27,936.52
Kossuth	496.26			1,812.14				5,836.33		8,144.73
Lee	5,480.47	530.97				10,012.54	1,636.80			16,023.98
Linn	25,920.00	237.00								27,184.40
Louis	4,224.10									4,224.10
Lucas	515.50									515.50
Lyon	7,068.92	108.35								7,147.27
Madison	17,300.52	216.84				2,653.64				17,517.36
Maehaska	45,430.08	924.91								49,037.63
Marion	13,227.70	2,438.87							367.11	16,033.68
Marshall	21,373.05	1,800.00					12,662.23		50.00	35,945.28
Mills	909.00	2,087.45								2,947.45
Mitchell	10,187.32	2,416.87								18,004.19
Monroe	4,059.65									4,059.65
Monroe	10,970.35	2,664.21								13,634.56
Montgomery	5,893.19	3,540.82					16,880.34		4,383.18	30,397.53
Muscataine	7,210.14	2,602.25				6,271.17				16,083.56
O'Brien	5,375.84					3,187.32				8,563.16
Osceola	12,945.48									12,945.48
Page	10,000.55					8,040.35	18,826.10			38,856.14
Palo Alto	14,761.54	344.40	1,291.74			6,718.25		2,656.51		23,536.50
Plymouth										

Pocahontas	1,878.50	5,975.29	426.83			1,984.07	8,220.23	14,372.03		10,604.56
Polk	24,638.74									44,971.03
Pottawattamie										
Poweshiek	32,000.32					6,178.55				38,178.87
Ringgold	6,990.39									6,990.39
Sac	22,278.95	1,439.62				2,642.50	6,416.60			32,777.67
Scott	4,909.18		3,389.09			9,168.16				17,466.42
Shelby		250.27								250.27
Sioux	21,493.23	4,892.82								26,386.05
Story									29,171.41	29,171.41
Tama	51,997.95	3,684.00				757.52	22,123.59	20,521.55		108,085.51
Taylor	36,827.56	3,451.80				4,087.04				44,966.40
Union	5,310.90									5,310.90
Van Buren	9,153.64									10,306.34
Wapello	6,970.69									6,970.69
Warren	12,604.48	236.35								12,840.83
Washington	36,037.97	1,308.35								37,346.32
Wayne	9,275.05									9,275.05
Webster	723.76									723.76
Winnebago	20,571.83	2,381.17				16,276.62				38,194.84
Winnebuck	7,616.47	3,789.98		1,034.50		10,035.00			3,272.34	11,408.45
Woodbury										
Worth	9,332.20	938.40		949.23		4,354.00			1,676.69	17,500.52
Wright	11,761.00					4,210.40				15,971.40
Totals	\$1,151,130.35	\$77,494.08	\$19,636.56	\$15,803.16	\$5,840.71	\$239,915.34	\$215,796.25	\$125,063.02	\$71,070.06	\$1,921,790.53

SUMMARY TABLE NO. 6

Classification of Temporary Bridge and Culvert Construction for Which Warrants Were Issued in 1928—Primary, County and Township Roads—Annual Report of County Engineers.

County	Concrete Pipe	Corrugated Pipe	I-Beam Spans Piling Abutments	Pony Trusses on Piling Wood Floor	High Trusses on Piling Wood Floor	Wood Trestle Bridges	Miscellaneous Temporary Bridges and Culverts	Total
Adair	\$ 1,539.33		\$ 1,800.01			\$ 5,308.40		\$ 8,737.83
Adams	1,071.90	\$ 95.00				8,522.45		9,689.35
Allamakee	1,272.70							1,272.70
Appanoose	137.00	1,766.99	251.96					2,155.95
Audubon	2,833.33	1,488.95	913.83	\$ 1,778.80		14,256.15		21,291.06
Benton		3,246.26				2,564.82		5,811.08
Black Hawk	805.89	575.06						1,380.95
Boone		272.00				322.96		594.96
Bremer		1,897.58					\$ 1,187.95	3,085.53
Buchanan		1,203.52	627.35					1,830.87
Buena Vista							114.43	114.43
Butler	96.50	367.27				6,530.50		6,994.27
Calhoun			8,982.00				765.76	9,747.76
Carroll	1,460.00		8,474.88			584.05		10,518.93
Cass			2,000.00		\$ 28,652.25			30,652.25
Cedar		1,765.35					255.03	2,020.38
Cerro Gordo		908.04						908.04
Cherokee	422.30	197.56	1,569.84				273.89	2,463.59
Chickasaw		2,319.44				11,644.01		13,963.45
Clarke		1,712.15				271.10		1,983.25
Clay	576.14		627.70	1,946.69			472.10	3,622.63
Clayton							652.91	652.91
Clinton		1,219.27				327.50		1,546.77
Crawford			20,251.60					20,251.60
Dallas	567.50	929.59		2,900.00		3,020.08		7,507.17
Davis	839.75							839.75
Decatur	20.49	2,744.43					240.39	3,005.31
Delaware	2,259.00	482.53		989.12		2,921.78		6,652.43
Des Moines		156.10	998.96					1,155.06
Dickinson								
Dubuque		1,120.72						1,120.72
Emmet						560.50		560.50
Fayette		339.55						339.55
Floyd	420.00	1,242.36					4,083.73	5,746.08
Franklin		584.02		234.04				818.06
Fremont	1,966.70						3,127.65	4,394.35

Greene	394.80		2,347.86				81.25	2,823.91
Grundy		1,253.12				6,164.38	746.07	8,163.57
Guthrie		1,522.40		1,521.85		2,173.61	5,739.17	10,957.03
Hamilton	608.64	1,150.00						1,818.64
Hancock		736.00				520.00		1,256.00
Hardin		1,399.45	521.58			12,557.76		14,478.79
Harrison		1,114.31		10,435.00		8,201.52		19,750.83
Henry				4,098.16		1,908.70	48.17	6,055.03
Howard		423.74				4,876.42		5,300.16
Humboldt		778.71				15.75		794.46
Ida	1,082.60	1,663.16	5,854.38	6,675.95		1,154.34		16,430.43
Iowa		1,508.96	3,672.95	3,561.89			50.00	8,793.80
Jackson		216.29	4,101.35					4,317.64
Jasper	4,146.00	894.52	20,659.79				249.88	25,950.19
Jefferson	47.06	424.60	824.51			4,093.01	670.94	6,060.12
Johnson		12,927.29				2,894.29	273.77	16,095.35
Jones	605.88	2,177.65						2,783.53
Keokuk		2,142.29						2,142.29
Kossuth		2,318.86		771.74		6,016.06		9,106.66
Lee		307.32		894.02	11,715.09			12,917.33
Linn		172.80				15,469.43		15,642.23
Louisa	1,328.78							1,328.78
Lucas						9,082.17	1,190.44	10,272.61
Lyon	846.74	42.15					243.51	1,132.40
Madison		711.48						711.48
Mahaska							662.40	662.40
Marion		2,437.84				4,574.77	288.88	7,301.49
Marshall	2,881.15	416.87	2,568.99			30.00		5,897.01
Mills		789.61		538.82		1,840.28		3,168.71
Mitchell								
Monona		3,397.79	4,266.34	4,502.59	2,875.93	11,500.75		26,543.40
Monroe	535.30	357.67	5,903.32	5,076.15			633.01	12,615.35
Montgomery	987.59	491.10				2,881.87	340.16	4,700.72
Muscatine	37.41	1,938.13	3,065.90	1,886.89			468.83	7,287.16
O'Brien	218.51	66.18						284.69
Osceola						7,542.16		7,542.16
Page	175.00	3,289.82			5,997.00	11,862.96		20,714.78
Palo Alto	283.07	556.10						839.17
Plymouth	180.00	682.32	7,248.40			6,900.24		15,010.96
Pocahontas	350.00	741.51				508.26	274.43	1,874.20
Polk		4,910.09	5,085.08			5,011.32		15,006.49
Pottawattamie			3,968.61			20,638.78		24,607.39
Poweshiek		3,292.98						3,292.98
Ringgold							4,391.82	4,391.82
Sac								
Scott		1,455.11				965.28		1,730.39
Shelby		370.90	2,398.73		14,322.83	14,155.96		31,243.42
Sioux	451.15	2,291.73	7,120.95			6,609.89	347.49	16,821.26
Story				8,813.35				8,813.35

SUMMARY TABLE NO. 6—Continued

County	Concrete Pipe	Corrugated Pipe	I-Beam Spans Piling Abutments	Pony Trusses on Piling Wood Floor	High Trusses on Piling Wood Floor	Wood Trestle Bridges	Miscellaneous Temporary Bridges and Culverts	Total
Tama								
Taylor		7,533.41	1,249.97	2,407.15	2,417.49	12,173.52	1,515.15	27,296.69
Union	91.55	108.60				1,840.58		2,035.73
Van Buren	500.00	1,275.72	2,033.62	1,159.69		324.20		5,293.23
Wapello	302.40	859.98		961.14				3,759.55
Warren	43.75			1,506.35			1,646.03	2,080.74
Washington		115.48					530.64	6,155.87
Wayne		313.93				5,365.13	675.26	4,774.98
Webster	313.60	561.32				4,461.05		9,118.33
Winnebago	788.71	3,424.53	2,137.12			7,633.40	610.01	6,422.86
Winnebago		182.60					72.50	182.60
Woodbury		1,142.32	1,259.52	1,132.49		594.75		4,993.36
Worth	5,425.44		14,469.33	6,819.52	8,494.67	10,942.79	864.28	46,151.75
Wright		1,232.00	278.00					1,510.00
Totals	\$ 38,293.56	\$ 105,177.53	\$ 147,099.43	\$ 70,691.40	\$ 73,876.16	\$ 271,053.23	\$ 33,807.92	\$ 740,599.23

SUMMARY TABLE NO. 7

Showing Cost of Repairs on Bridges and Culverts and Culvert Material Purchased for Townships.
Annual Report of County Engineers.

County	Repairs					Material Purchased for Townships				
	Wooden Bridges and Culverts	Temporary Steel Bridges and Culverts	Permanent Bridges and Culverts	Miscel- laneous Repairs	Total Cost of Repairs	Cor- rugated Pipe	Concrete Pipe	Lumber	Miscel- laneous Materials	Total Township Materials
Adair	\$ 3,399.51				\$ 3,399.51		\$ 8,896.48	\$ 1,312.14		\$ 10,208.62
Adams	9,725.31				12,705.24		5,366.00	2,285.20	\$ 95.90	7,747.10
Allamakee	8,353.65	\$ 240.12	1,171.13		9,764.90		4,816.04			4,816.04
Appanoose	11,302.12	1,549.96	99.74		12,951.82	\$ 3,741.60		1,162.12	2,819.00	8,081.72
Audubon	1,796.90	3,910.36	201.55	\$ 2,212.50	8,121.31	1,494.70				1,987.70
Benton	7,157.46		571.94	2,411.20	10,140.60	3,089.62	493.00	1,817.00	351.76	6,158.38
Black Hawk	12,534.19	90.85	436.50	74.61	13,066.15	3,579.46	31.95		349.23	3,960.64
Boone	77.29	3,719.77	530.13	35.00	4,362.19	2,857.16	133.55			2,990.71
Bremer	11,417.06		1,093.33	801.75	13,312.14	3,814.69		383.00		4,197.69
Buchanan	8,489.01	875.10	434.91		9,799.02	2,379.99				2,379.99
Buena Vista	411.46	13.63	344.80		769.91	517.00	1,280.34		109.83	1,907.17
Butler	11,638.36		477.71	186.50	12,302.57	2,224.33	54.40		8.70	2,287.43
Calhoun				5,186.91	5,186.91	5,732.05	701.20			6,433.25
Carroll	5,262.00	445.34	1,100.23	54.19	6,861.76	713.74	5,006.31	1,985.00		7,705.05
Cass	17,088.70	54.00		867.65	18,010.35	4,414.89	115.00			4,529.89
Cedar	15,186.19	142.50	13,134.91	961.95	29,425.55	3,158.45				3,158.45
Cerro Gordo	860.11	808.48	37.50		1,706.09	4,064.89				4,064.89
Cherokee	954.33	3,288.79	65.00	129.24	4,437.36	4,026.81	1,200.81			5,227.62
Chickasaw	8,374.59				8,374.59	2,136.20		1,246.50		3,382.70
Clarke	7,064.77	162.25	116.83		7,343.85	4,202.37		556.87		4,819.24
Clay	665.18	1,493.96	462.15	2,015.39	4,636.68	3,724.12	9,143.00			12,867.12
Clayton	2,419.67	2,177.35	1,532.90	2,101.88	8,231.80	3,395.54		1,361.01	463.55	5,220.10
Clinton	7,092.90	4,148.39	218.00		11,460.19	5,060.52			34.13	5,084.65
Crawford	19,451.01	240.90			19,691.31	7,538.89		2,000.00	300.00	9,838.89
Dallas	1,849.70	6,183.75	1,451.65	65.40	9,550.50	3,702.74	2,839.99	124.80	3.40	6,690.93
Davis	16,263.42	1,389.00	488.13		18,140.64		5,411.90			5,411.90
Decatur	13,539.29	5,699.79			19,239.08	2,116.91		1,419.00	22.23	3,558.14
Delaware	3,122.56	342.02	960.40	19.70	4,483.68	2,868.46		502.39		3,370.85
Des Moines	163.03	2,031.72	3,059.11	31.86	5,287.72	3,837.72			125.26	3,962.98
Dickinson	105.43		10.75		116.18	104.94	2,411.94			2,516.88
Dubuque	7,175.48	7,419.34	2,647.81	2,260.02	19,502.65	4,760.98				4,760.98
Emmet	1,085.73		1,257.40	56.54	2,399.67		1,556.28			1,556.28
Fayette	17,241.79	1,092.58	1,318.41	161.23	19,814.01	2,964.52				2,964.52
Floyd	1,040.18	1,147.54	191.26	400.00	2,778.98	2,315.37		600.58		2,915.95

SUMMARY TABLE NO. 7—Continued

County	Repairs					Material Purchased for Townships				
	Wooden Bridges and Culverts	Temporary Steel Bridges and Culverts	Permanent Bridges and Culverts	Miscellaneous Repairs	Total Cost of Repairs	Corrugated Pipe	Concrete Pipe	Lumber	Miscellaneous Materials	Total Township Materials
Franklin	3,895.26	59.75		121.55	4,076.56	2,361.13				2,361.13
Fremont	12,390.49	4,579.71		5,381.03	22,351.23	3,724.52	954.02	3,264.00		7,942.54
Greene	12,139.83	28.45	975.20	915.26	14,058.74		3,651.81			3,651.81
Grundy	4,236.33	20.85	897.58		5,154.76	2,317.39		430.35		2,747.74
Guthrie	8,881.89	1,721.63	1,630.55	5,718.93	17,953.00	6,080.37		524.58		6,604.95
Hamilton	91.64	8,577.34	131.19		8,800.17	950.00	728.53			1,678.53
Hancock	3,907.65		2.00		3,909.65	2,494.31				2,494.31
Hardin	3,387.82	31.08	771.48	218.89	4,409.27	2,940.00				2,940.00
Harrison	26,695.37	18,664.40	32.90		45,392.67	5,367.22		590.00	13.50	5,970.72
Henry	1,472.68	2,775.61	941.90	25.60	5,215.79	2,620.37	313.60	1,272.77	164.04	4,371.04
Howard	1,415.28	300.58	246.62	2,913.87	4,876.35	2,452.45		337.49		2,789.94
Humboldt			1,630.93	296.68	1,927.61	743.35				743.35
Ida	7,517.54	468.12	888.34		8,874.00	3,843.52		272.88	15.73	4,132.13
Iowa	25,741.64				25,741.64	3,326.54				3,326.54
Jackson	17,520.28	23,382.48	549.49	487.05	41,939.30	7,142.88		12.00	289.77	7,444.65
Jasper	7,618.22	507.15	2,095.74	102.20	10,383.31	190.50		84.64	13.45	288.59
Jefferson	2,882.37	6,812.27	91.95	1,343.61	11,130.20	5,200.72		991.15	8.10	6,199.97
Johnson	5,591.21	4,158.36	2,946.15	150.10	12,845.82	1,682.23		3,107.44	11.97	4,801.64
Jones	24,557.80	2,488.26	1,581.18		28,627.24	1,353.19		1,456.00	439.60	3,248.79
Keokuk	6,452.91	6,181.78	3,339.54	6.45	15,980.68	5,557.65		2,797.12	15.00	8,369.77
Kossuth	6,397.44	2,332.61			8,730.05	3,629.12	152.00			3,781.12
Lee	12,184.50	3,380.88	2,835.24	2,179.07	20,579.69	3,200.36				3,200.36
Linn	8,274.76	149.99			8,424.75	9,722.64				9,722.64
Louisa	1,694.27	7,054.53	262.05	1,405.75	10,416.60	2,847.30			6.50	2,853.80
Lucas	4,133.65	8,685.90	1,212.41	678.37	14,710.33	10,207.02				10,207.02
Lyon	6,281.32	73.30	1,354.85	2,518.28	10,227.75	1,133.15	4,323.60	107.41	190.83	5,754.99
Madison	21,000.70		50.80		21,141.50	4,854.80			270.00	5,124.80
Mahaska	3,443.04	2,454.47	1,807.56	7.95	7,713.02	59.10		2,744.01		2,803.11
Marion	10,247.75	922.35	195.75	133.25	11,499.10	2,846.62		1,624.40		4,471.02
Marshall	3,200.34	371.12	2,570.19		6,141.65	5,576.10		89.67		5,665.77
Mills	16,674.60	5,633.30	457.35	149.05	22,914.30	5,628.02		449.43	552.18	6,629.63
Mitchell				26,556.90	26,556.90					
Monona	14,688.32	3,672.09	396.71	77.50	18,834.62	4,287.20		275.89	8.85	4,571.94
Monroe	8,603.48	326.99			8,930.47	1,977.18	1,992.31	844.20	5.05	4,819.64
Montgomery	10,192.30	31.07	704.62	292.64	11,190.63	4,836.50	2,032.67	744.14	58.32	7,671.63
Muscatine	26.25	2,802.41	457.40	1,195.08	4,481.14	1,990.69	24.00		158.00	2,182.69
O'Brien	8,327.43	246.88	1,062.23		9,636.54	1,177.96	1,559.50		82.25	2,819.71

Osceola	584.43		545.60		1,130.03		1,827.92			1,827.92
Page	27,952.38	3,075.15	1,513.40	2.40	32,543.33	5,266.51				5,266.51
Palo Alto	966.14	445.83	23.30		1,435.27	990.07	1,491.63	1,457.32		3,009.02
Plymouth	15,763.89	884.57	36.52	8.47	16,693.45	9,826.62	179.20	312.91	77.00	10,305.73
Pocahontas	1,777.14	3,835.53	34.15	48.75	5,695.57	2,663.47	53.92			2,717.39
Polk	8,045.84	8,045.84	2,425.40		18,517.08	4,910.09				4,910.09
Pottawattamie	28,594.79	7,626.10		4,734.42	40,955.31	7,137.16		53.90	40.27	7,231.33
Poweshiek	18,606.89		506.99		19,202.88	4,413.36				4,413.36
Ringgold	15,540.33				15,540.33	6,715.20		5,860.40		12,575.60
Sac	1,287.90	3,083.81	1,267.45	828.87	6,468.03	3,132.71	50.80	4.20	98.65	3,286.36
Scott	2,444.27	4,007.57	766.73	624.55	7,843.12	2,741.29				2,741.29
Shelby	14,133.84	3,422.86			17,556.70	6,472.65	1,098.80	4,710.41		12,281.86
Sloux	4,654.74	512.25	12.05	8.50	5,187.54	4,588.19	419.87	7,315.33	114.45	12,437.84
Story	2,986.44	19.65	1,154.94		4,161.03	1,824.00				1,824.00
Tama	10,401.09	356.90	1,194.79	3,256.73	15,209.51	7,287.36		1,325.61	138.90	8,751.87
Taylor	8,820.48	3,330.22			12,150.70	119.18	134.50	792.05		1,045.73
Union	1,545.65		1,986.68	3,534.79	7,067.12	4,897.40		240.30	214.20	5,351.90
Van Buren		6,030.60	1,463.75	18,135.68	25,630.03	735.10	350.00	1,952.72		3,037.82
Wapello	16,062.03	1,931.52	2,180.90		20,164.45	1,694.50		2,353.96		4,048.46
Warren	7,138.30	6,238.45	85.00		13,461.75	1,777.72		718.75	44.95	2,541.42
Washington	2,960.12	4,780.42	3,014.45	1,732.09	12,487.08	2,765.91		2,536.64	35.14	5,340.69
Wayne	4,449.77	2,623.66			7,073.43	1,310.68		626.26	13.50	1,950.44
Webster	4,065.97	2,147.98	976.49	849.96	8,040.40	2,666.64				2,666.64
Winnebago	5,299.77				5,299.77	764.64				764.64
Winneshiek	2,404.75	12,035.80	50.91	222.30	14,713.76	2,071.76	72.00	2,580.82		4,724.58
Woodbury	11,394.37	7,680.42	28.70	674.90	19,778.39		4,968.03			4,968.03
Worth			287.80	1,740.57	2,028.37	1,340.63			30.40	1,371.03
Wright		7,152.21			7,152.21	1,956.00				1,956.00
Totals	\$762,028.06	\$249,727.24	\$ 95,352.12	\$107,221.56	\$1,214,328.98	\$309,879.86	\$ 75,867.00	\$ 71,975.76	\$ 7,797.49	\$ 465,520.11

SUMMARY TABLE NO. 8
Bridge Equipment, Unused Material—Filling Bridges and Culverts and Special Cases.
Annual Report of County Engineers.

County	Equipment and Material			Filling Bridges and Culverts	Special Cases				
	Equipment and Repairs	Material Purchased and Not Used	Total		Right of Way	Moving and Re-erecting Old Spans	Channel Changes	Miscel- laneous	Total
Adair	\$ 1,230.37	\$ 10,671.72	\$ 11,902.09			\$ 3,330.54			\$ 3,330.54
Adams	2,778.40	4,353.92	7,132.32	\$ 48.50	\$ 264.00	448.60	\$ 714.73		1,427.33
Allamakee	3,708.77	931.04	4,639.81	112.00				\$ 1,716.06	1,716.06
Appanoose	5,561.51	10,151.46	15,712.97	278.50	622.35	1,127.98			1,750.33
Audubon	3,246.54	4,787.00	8,033.54	2,491.71	86.40				86.40
Benton		1,529.83	1,529.83				2,426.20		2,426.20
Black Hawk		1,701.17	1,701.17					253.10	494.10
Boone	1,880.89	381.22	2,262.11	2,965.75	10.00	93.05	1,676.19		1,769.24
Bremer	2,200.09	4,589.70	6,789.79	552.55			888.50	130.35	1,018.85
Buchanan	134.32	2,127.15	2,261.47	1,112.45	166.50	2,347.71	1,315.78	229.18	4,059.17
Buena Vista	931.67	501.11	1,432.78					134.31	134.31
Butler	392.57	2,026.47	2,419.04	6,269.79	208.23		142.50		350.83
Calhoun		13,066.55	13,066.55	23.40		633.00			633.00
Carroll	833.35	1,501.84	2,335.19	294.67	439.91	2,019.48	998.27	309.26	3,708.92
Cass	1,715.02		1,715.02	1,993.70		804.32			804.32
Cedar				479.47		27.00	253.20	395.64	675.84
Cerro Gordo	4,301.21	461.00	4,762.21						
Cherokee	1,382.23	2,559.76	3,941.99	1,463.15	896.66		105.30	208.78	1,210.74
Chickasaw	561.79	1,651.90	2,213.69			1,719.34	417.23	2,158.70	4,295.27
Clarke	2,324.22	550.00	2,874.22	8,729.86		854.98			854.98
Clay		1,324.90	1,324.90	511.50	61.30	303.95	60.30		425.55
Clayton				2,983.89	67.50				67.50
Clinton				2,370.03	31.00	4,128.84			4,159.84
Crawford	598.56	12,000.00	12,598.56	2,000.32	303.75	1,858.30	2,505.10		4,667.15
Dallas	1,280.79	6,594.39	7,875.18	3,948.52	145.00	4,108.51	548.00	1,274.27	6,075.78
Davis	3,215.92	3,571.55	6,787.47	3,668.43		1,556.25	235.10		1,791.35
Decatur	4,120.32	3,486.75	7,607.07			1,492.50	90.40	1,207.17	2,700.07
Delaware	111.70	1,333.78	1,445.48	815.74		193.00			193.00
Des Moines	2,016.91	3,261.16	5,278.07	47.50	87.55	348.00	1,136.92	601.74	2,174.21
Dickinson		437.61	437.61	333.78					
Dubuque	1,171.03		1,171.03	2,057.40	130.00	972.61			1,102.61
Emmet		1,127.49	1,127.49				235.10		235.10
Fayette	8,763.94	2,350.11	11,114.05	2,984.00	55.50	423.37	1,187.50	2,151.18	3,817.55

Floyd	1,675.74	4,989.69	6,665.43	230.00					
Franklin	741.80	1,709.38	2,451.18	48.95		160.65			160.65
Fremont	3,394.82	2,262.92	5,657.74	819.80	4,163.18	139.79			4,302.97
Greene	1,709.29		1,709.29	320.20	10.00		1,498.32		1,508.32
Grundy		25.06	25.06	44.00	170.00		1,319.50	708.20	2,197.70
Guthrie	5,164.95	4,000.00	9,164.95	6,396.48			592.99		592.99
Hamilton				122.77	75.00		58.37		133.37
Hancock	900.61		900.61	296.15					
Hardin	1,078.50		1,078.50	2,880.04	892.35		253.47	521.42	1,667.24
Harrison	460.89	1,000.00	1,460.89	121.50	206.00	4,454.12	46.65		4,706.77
Henry		1,023.79	1,023.79	190.95	25.00		180.50	1,904.83	2,110.33
Howard	2,202.27	1,311.37	3,513.64	6,480.34	700.00		147.38		847.38
Humboldt		1,408.27	1,408.27		24.65				24.65
Ida	921.58	4,947.60	5,869.18	1,741.66	533.30		1,685.50	134.90	2,353.70
Iowa	915.98		915.98	1,606.96	65.00	1,457.16			1,522.16
Jackson	115.29		115.29	1,237.88	571.25		292.50	567.42	1,431.17
Jasper	4,393.07		4,393.07	3,555.32			34.00		34.00
Jefferson	1,525.92	5,070.07	6,595.99	2,151.58		2,881.89			2,881.89
Johnson	3,068.13		3,068.13	54.45		2,536.52	795.61	1,390.15	4,722.28
Jones				456.00	40.00	956.75	1,080.20	290.00	2,366.95
Keokuk	3,362.48	4,000.00	7,362.48	6.00				1,284.43	1,284.43
Kossuth	1,450.00		1,450.00	358.03		1,054.10			1,054.10
Lee	3,404.01	5,137.90	8,541.91	2,144.38	200.00		517.00		717.00
Linn		947.33	947.33	551.05			757.52	1,178.41	1,935.96
Louis	240.99		240.99	504.61	17.00	4.38	1,857.48		1,878.86
Lucas	3,345.39		3,345.39	723.80	140.00		801.50		941.50
Lyon	1,039.49	6,713.21	7,752.70	211.80			60.00		60.00
Madison	3,535.26	2,687.62	6,222.88	4,532.95					
Mahaska	455.54	1,400.34	1,855.88	2,628.50			868.85		868.85
Marion	13.60	1,906.46	1,906.06	4,664.85			228.75		228.75
Marshall	868.93	4,437.91	5,306.84	1,487.65		1,227.23	1,012.09	265.50	2,504.82
Mills	1,762.38	2,042.97	3,805.35	1,094.25		4,650.12			4,650.12
Mitchell	1,616.92		1,616.92				25.00		25.00
Monona	1,908.27	6,984.44	8,892.71	1,979.75	253.30	2,322.10	967.56	89.15	3,632.11
Monroe	2,904.43	2,516.98	5,421.41	2,497.22	146.20	1,279.38	807.00		2,222.58
Montgomery		565.98	565.98	3,223.55	1,175.08	2,950.54	640.38	1,072.64	5,838.64
Muscatine	276.86	1,785.05	2,061.91	695.80	254.38	2,347.64	4,420.92	2,805.57	9,828.51
O'Brien	1,215.52	3,887.83	5,103.35	50.50			295.30		295.30
Osceola	30.75	504.38	595.13						
Page	2,500.65	5,843.83	8,344.48		868.75	731.25	2,606.61	8,182.67	12,339.28
Palo Alto		68.87	68.87	490.55	514.99	400.99			915.98
Plymouth	2,010.35	6,259.18	8,269.53	38.55	20.00	2,358.27	24.92		2,403.19
Pocahontas	206.69	1,293.69	1,500.38	194.48		596.98			526.98
Polk				2,833.14					
Pottawattamie	2,518.29	6,531.36	9,049.65	231.60		465.36		972.33	1,437.69
Poweshiek				704.10				1,420.85	1,420.85
Ringgold	1,651.60	3,551.87	5,203.47	2,840.44	520.30				520.30
Sac	3,973.84	3,036.52	7,010.36	4,113.87	45.00	1,291.80	719.52	255.13	2,311.45
Scott	5,963.36	3,535.21	9,488.57	568.95	50.00		1,190.00	258.07	1,498.07

SUMMARY TABLE NO. 8—Continued

County	Equipment and Material			Filling Bridges and Culverts	Special Cases				
	Equipment and Repairs	Material Purchased and Not Used	Total		Right of Way	Moving and Re-erecting Old Spans	Channel Changes	Miscel- laneous	Total
Shelby	4,134.01	3,254.32	7,388.33	9,213.22	25.00	6,067.71		108.30	6,201.01
Sioux	820.70	3,868.28	4,688.98	669.50			2,566.81	1,456.82	4,023.63
Story	1,247.56	876.00	2,123.56	2,344.70	208.85		1,271.98	2,450.00	3,930.83
Tama		111.65	111.65	1,917.64	400.80				400.80
Taylor	2,257.32	4,021.85	6,279.17			1,439.03			1,439.03
Union	1,025.31	5,000.00	6,025.31			2,383.74			2,383.74
Van Buren	700.00	1,772.31	2,472.31				475.14		475.14
Wapello	3,353.54	4,829.95	8,183.49	3,316.95	180.67	5,014.82	1,390.70		6,586.19
Warren	463.86		463.86	10,764.40	441.58	1,418.25			1,859.83
Washington	2,100.17	3,784.75	5,884.92	1,302.86	108.68	5,134.69	1,379.22		6,622.59
Wayne	4,565.90	4,600.00	9,165.90			399.45			399.45
Webster	1,384.87		1,384.87	313.42					30.00
Winnebago	6.65	2,696.36	2,703.01	217.38	30.00				818.02
Winneshiek	303.35	840.07	1,143.42	575.90	125.00	21.45	671.57		5,570.92
Woodbury	1,004.83	2,040.10	3,044.93	323.70	163.33	1,485.25	544.09	3,376.25	156.83
Worth	372.41	257.46	629.87					156.83	156.83
Wright	93.99	895.92	989.91	158.28			158.28		158.28
Totals	\$ 153,201.03	\$ 241,262.63	\$ 394,463.66	\$ 148,178.36	\$ 16,942.39	\$ 86,352.74	\$ 49,263.12	\$ 41,767.89	\$ 194,326.14

SUMMARY TABLE NO. 9

Comparison of Bridge and Culvert Construction 1923, 1924, 1925, 1926, 1927 and 1928.
Annual Report of County Engineers.

County	Jan. 1, 1923 to Jan. 1, 1924	Jan. 1, 1924 to Jan. 1, 1925	Jan. 1, 1925 to Jan. 1, 1926	Jan. 1, 1926 to Jan. 1, 1927	Jan. 1, 1927 to Jan. 1, 1928	Jan. 1, 1928 to Jan. 1, 1929	Total County Funds
Adair	\$ 89,759.90	\$ 81,695.85	\$ 84,653.84	\$ 65,037.27	\$ 58,508.75	\$ 57,858.78	\$ 437,517.39
Adams	28,109.62	45,390.65	42,750.67	37,348.40	45,193.73	45,903.14	244,696.21
Allamakee	48,812.06	36,780.32	51,537.10	55,684.87	53,985.99	40,889.74	287,690.98
Appanoose	61,694.41	34,830.17	44,508.46	58,346.15	64,748.85	42,586.60	306,714.64
Audubon	74,067.07	103,261.08	111,415.90	73,172.06	54,933.20	46,308.74	463,158.04
Benton	72,601.46	54,068.87	62,659.31	40,885.99	92,991.70	78,539.57	401,746.90
Black Hawk	56,062.68	46,083.02	48,957.61	56,406.91	56,082.86	48,122.97	311,713.05
Boone	100,021.25	72,538.91	68,120.20	48,018.61	51,118.84	34,634.48	374,452.29
Bremer	59,822.21	61,817.47	57,961.46	60,802.55	47,766.86	51,768.67	339,969.22
Buchanan	49,519.21	47,338.07	48,316.07	43,304.29	41,477.78	41,756.80	271,612.22
Buena Vista	15,374.73	27,082.86	11,183.52	22,122.56	18,171.41	16,656.06	110,591.14
Butler	38,902.94	63,909.84	81,230.66	63,476.44	77,464.57	82,863.34	407,847.79
Calhoun	70,713.48	67,968.84	69,268.01	34,887.87	51,469.86	33,256.97	327,565.03
Carroll	43,855.46	59,753.23	98,300.16	96,054.12	54,739.05	44,209.00	391,896.02
Cass	59,934.59	63,080.13	77,032.97	67,479.80	77,066.59	81,827.09	426,442.07
Cedar	70,715.57	71,461.06	35,596.27	43,975.95	72,490.09	67,555.28	361,794.21
Cerro Gordo	73,491.94	50,788.92	54,584.95	56,753.61	45,181.44	20,554.96	301,306.82
Cherokee	63,153.36	104,069.07	69,477.08	66,123.77	67,579.45	65,941.81	436,344.54
Chickasaw	45,141.47	50,055.35	47,352.09	49,721.50	47,329.47	32,790.87	272,381.75
Clarke	43,738.44	31,365.40	36,131.83	33,936.27	45,737.61	33,321.18	224,230.73
Clay	40,259.57	33,237.65	33,477.08	30,619.62	26,906.72	24,136.96	188,637.00
Clayton	122,761.63	88,667.99	69,623.70	45,608.91	64,996.53	47,105.52	438,764.28
Crawford	99,522.18	49,806.11	111,211.10	55,498.46	76,147.84	86,764.56	478,959.25
Dallas	83,398.63	187,718.07	113,315.42	89,464.91	99,232.25	90,121.77	663,251.06
Davis	74,968.45	75,315.76	84,806.05	54,681.89	91,683.81	71,336.95	452,764.91
Decatur	49,601.43	44,804.70	48,117.26	46,281.44	54,999.61	49,061.30	292,865.74
Delaware	47,724.00	43,446.65	53,564.81	45,739.67	47,256.49	37,098.90	276,829.92
Des Moines	53,084.25	37,235.18	109,849.35	36,541.36	48,545.87	39,126.12	324,332.13
Dickinson	25,654.72	30,704.18	30,013.60	30,396.27	28,484.74	30,850.48	176,103.99
Dubuque	14,311.96	17,365.28	5,135.73	4,062.99	8,865.47	15,796.73	65,538.16
Emmet	40,263.25	41,840.52	133,998.89	97,868.66	67,646.44	58,644.49	440,262.55
Fayette	15,526.73	18,445.64	10,389.67	14,363.36	23,759.15	15,824.38	98,308.93
Floyd	82,653.64	76,544.88	103,168.18	85,734.98	93,625.53	80,574.14	522,391.35
Franklin	50,702.27	30,878.62	43,168.91	29,229.20	45,233.69	40,365.80	239,778.49
Frederick	35,814.37	34,329.73	30,603.22	34,716.98	46,542.46	36,385.60	208,383.36
Fremont	75,969.95	106,722.69	56,275.60	44,336.34	70,126.57	48,497.79	401,928.94
Greene	33,635.26	34,576.66	67,413.57	39,068.08	30,698.29	42,667.94	248,029.80

SUMMARY TABLE NO. 9—Continued

County	Jan. 1, 1923 to Jan. 1, 1924	Jan. 1, 1924 to Jan. 1, 1925	Jan. 1, 1925 to Jan. 1, 1926	Jan. 1, 1926 to Jan. 1, 1927	Jan. 1, 1927 to Jan. 1, 1928	Jan. 1, 1928 to Jan. 1, 1929	Total County Funds
Grundy	60,170.44	40,717.77	57,772.46	39,475.07	30,775.74	23,796.53	252,708.01
Guthrie	45,794.67	90,186.75	74,553.72	56,091.73	70,441.46	55,892.42	392,960.75
Hamilton	43,810.12	44,142.40	39,392.46	39,710.35	13,609.37	22,769.69	203,434.39
Hancock	28,313.10	12,351.07	24,582.94	23,421.97	25,072.24	22,225.82	135,967.14
Hardin	64,567.26	82,801.08	85,880.95	65,293.38	80,051.45	44,030.62	422,684.74
Harrison	63,093.37	67,364.04	57,058.30	52,272.18	79,146.00	78,078.38	397,012.27
Henry	21,568.69	30,642.91	31,391.42	44,525.27	29,396.18	31,541.86	189,006.33
Howard	58,701.55	44,114.48	38,067.31	50,745.32	29,253.54	43,788.77	264,670.97
Humboldt	21,100.18	33,089.74	26,591.74	22,958.20	28,283.02	4,898.34	136,921.22
Ida	50,770.03	51,851.10	45,472.51	58,915.41	53,354.41	52,987.75	313,351.21
Iowa	38,846.67	67,271.30	64,530.19	55,504.86	88,727.92	67,938.18	382,819.12
Jackson	44,373.10	51,505.95	59,648.78	66,373.07	67,952.20	65,224.31	355,077.41
Jasper	115,543.86	80,283.95	124,598.79	102,817.96	122,874.15	106,791.37	652,910.08
Jefferson	44,908.96	45,508.80	51,195.71	61,619.29	43,240.55	46,681.14	293,154.45
Johnson	90,087.98	42,762.70	90,816.16	63,571.12	91,347.13	89,192.76	467,777.85
Jones	60,771.87	74,040.44	52,799.62	56,868.18	72,323.26	50,922.97	367,726.34
Keokuk	43,284.17	84,052.69	66,430.53	72,140.57	68,678.72	63,082.17	397,068.85
Kossuth	23,005.30	27,030.20	26,263.82	26,768.30	37,478.63	32,624.69	173,170.94
Lee	80,859.02	48,059.36	55,492.98	49,371.03	73,840.63	64,124.65	371,747.67
Linn	134,144.55	137,687.80	184,279.17	142,453.94	142,198.30	64,408.93	805,172.69
Louisa	28,598.61	53,287.28	31,061.53	22,082.44	52,400.44	21,447.74	268,848.04
Lucas	21,027.04	28,675.55	30,803.82	33,179.52	24,559.94	40,716.15	179,022.02
Lyon	42,317.36	50,672.80	36,094.45	89,647.56	42,061.88	32,286.91	293,080.96
Madison	65,215.88	45,567.17	50,401.71	55,684.98	57,423.02	55,250.97	338,443.73
Mahaska	54,928.78	53,489.82	49,414.61	55,094.18	50,956.70	65,569.39	329,453.48
Marion	58,536.02	46,304.88	74,602.56	45,849.68	54,683.69	46,104.95	326,081.78
Marshall	32,493.98	41,907.80	23,907.79	42,603.90	33,129.85	62,949.02	236,991.84
Mills	53,879.57	51,687.37	50,864.99	40,934.44	45,447.40	45,299.81	288,023.58
Mitchell	25,025.39	62,164.86	39,012.85	76,343.25	44,487.76	46,803.01	293,837.12
Monona	31,307.00	66,042.54	53,334.54	44,474.49	53,419.87	68,554.18	317,132.62
Monroe	24,357.52	34,198.84	26,398.91	39,849.60	28,197.79	36,576.67	189,579.33
Montgomery	44,054.86	60,405.97	56,149.05	52,596.46	65,075.54	46,765.66	325,047.54
Muscatine	34,776.16	31,361.36	16,409.79	19,506.99	34,259.35	57,034.74	193,348.39
O'Brien	57,012.75	78,327.15	71,568.35	48,386.72	45,437.87	34,273.65	335,006.49
Osceola	26,663.97	29,248.81	18,872.41	32,114.74	26,617.21	19,658.40	153,175.54
Page	112,845.80	66,516.21	77,811.52	48,369.07	79,800.17	92,503.86	477,846.63
Palo Alto	53,403.62	40,162.12	43,528.44	37,147.11	33,255.69	46,245.00	253,741.98
Plymouth	89,649.85	73,683.48	82,751.91	74,052.71	101,899.51	76,347.71	498,383.17
Pocahontas	26,765.23	39,423.43	26,218.40	40,235.80	44,545.07	23,113.56	200,321.49
Polk	90,538.87	109,207.91	78,636.11	83,075.07	171,355.92	86,237.83	619,051.71
Pottawattamie	144,542.19	143,615.81	133,580.49	66,155.29	79,539.97	83,512.97	650,946.72
Poweshiek	71,313.51	94,766.03	76,300.48	63,552.27	72,672.39	67,213.04	445,817.72
Ringgold	39,254.25	49,506.17	22,934.14	38,863.68	49,366.14	48,062.35	247,985.73
Sac	80,374.74	70,161.57	70,447.52	57,403.65	50,931.97	55,967.74	385,287.19
Scott	292,846.59	17,970.94	21,714.79	26,242.46	30,065.71	41,326.81	430,167.30
Shelby	78,971.68	82,584.40	96,208.07	168,405.18	156,939.85	84,134.81	667,333.99
Sioux	74,172.42	97,316.21	72,331.75	103,409.39	168,371.60	70,214.80	585,816.17
Story	61,057.89	50,635.13	57,235.76	30,953.71	59,871.52	52,368.88	312,122.89
Tama	84,981.84	96,318.20	118,065.30	72,025.56	163,453.49	161,773.67	696,618.06
Taylor	57,688.89	61,995.77	60,757.06	58,092.79	54,800.03	67,916.76	361,251.30
Union	24,546.51	34,022.68	30,468.86	19,770.35	45,198.20	31,432.20	185,438.80
Van Buren	50,740.11	41,254.76	47,802.79	38,299.82	43,821.14	45,581.19	267,499.81
Wapello	30,168.00	25,817.04	48,089.35	46,089.92	53,374.80	51,350.97	254,890.08
Warren	43,038.21	67,130.33	63,845.42	61,299.94	125,210.14	48,087.96	408,612.00
Washington	48,608.06	93,888.00	65,032.21	69,249.00	93,207.75	74,049.44	444,034.46
Wayne	54,158.13	48,805.72	44,671.42	47,381.21	52,799.20	36,982.60	284,708.28
Webster	59,311.05	32,898.55	62,914.52	51,368.19	37,259.05	18,828.10	232,579.55
Winnebago	11,273.61	28,722.79	8,607.37	10,106.40	15,152.58	26,197.78	100,060.53
Winneshek	66,649.83	69,221.87	90,747.16	49,626.42	61,465.91	65,163.88	402,875.07
Woodbury	84,745.38	64,349.76	92,453.96	85,702.56	75,429.90	91,244.17	493,925.73
Worth	32,016.21	43,564.99	37,564.58	26,076.02	27,392.04	23,196.62	189,810.46
Wright	45,150.13	50,078.96	33,441.27	38,216.58	31,626.31	28,258.24	226,771.49
Totals	\$5,733,287.42	\$5,708,857.97	\$5,849,099.87	\$5,218,844.20	\$5,993,730.32	\$5,079,216.01	\$33,543,735.79

SUMMARY TABLE NO. 10

Classification of Road Work—County Roads.
Annual Report of County Engineers.

County	Construction	Maintenance	Special Cases	Total
Adair		\$ 32,912.27	\$ 13,219.94	\$ 46,132.21
Adams		28,037.30	60.70	28,098.00
Allamakee	\$ 13,128.08	38,159.01	7,857.85	59,144.94
Appanoose	19,052.66	31,079.13	767.05	50,898.84
Audubon	174.15	38,099.39	8,312.85	46,586.39
Benton	188,182.76	50,911.51		239,094.27
Black Hawk	44,226.80	31,693.84	7,754.62	83,675.26
Boone	517.73	32,599.06	1,728.34	34,845.13
Bremer	10,675.48	31,100.02	3,794.33	45,569.83
Buchanan	10,024.87	42,541.13	5,062.88	57,628.88
Buena Vista	984.38	47,648.85	8,746.35	57,379.58
Butler	16,548.97	35,036.78	800.30	52,386.05
Calhoun	78,059.54	34,279.28	20,279.98	132,618.80
Carroll	40,697.79	18,919.49	1,287.91	58,896.19
Cass	6,812.13	27,982.35	3,562.43	38,356.91
Cedar	227,888.72	27,913.70	9,926.15	265,728.57
Cerro Gordo	43,576.87	32,701.33	3,374.60	79,652.80
Cherokee	17,970.03	26,464.17	10,164.87	54,599.07
Chickasaw	34,018.74	25,800.53	4,275.11	64,094.38
Clarke		19,636.19	2,500.90	22,137.09
Clay	677.91	40,293.28	8,227.74	49,198.93
Clayton	60,900.60	52,254.70	10,287.26	123,442.56
Clinton	61,139.00	29,211.16	9,574.70	99,924.86
Crawford	46,167.15	30,407.08	3,129.50	79,703.73
Dallas	38,575.42	30,704.60	13,216.01	82,496.03
Davis		32,590.51	2,142.80	34,733.31
Decatur	424.40	30,611.98	7,195.51	38,231.89
Delaware	27,085.94	32,369.52	2,347.98	61,794.44
Des Moines		36,017.57	7,307.54	43,325.11
Dickinson	314.08	24,225.82	5,773.78	30,313.68
Dubuque	50,234.86	30,067.87	4,229.22	84,531.95
Emmet	1,086.61	24,656.73	2,401.89	28,145.23
Fayette	55,467.71	43,935.26	6,265.57	105,668.54
Floyd	52,034.69	27,091.37	3,027.27	82,153.33
Franklin	21,306.53	46,825.00	14,701.99	82,833.52
Fremont	13,876.07	29,642.44	2,809.59	46,328.10
Greene	35,310.62	27,448.88	1,408.03	64,167.53
Grundy	62,038.06	34,546.14	1,982.04	98,566.24
Guthrie	21,035.24	58,564.82	2,066.43	81,666.49
Hamilton	43,135.54	43,763.78	26,094.77	112,994.09
Hancock	26,732.22	27,055.73	2,684.14	56,472.09
Hardin	69,590.14	54,413.25	5,192.17	129,195.56
Harrison	4,689.21	38,060.65	7,302.01	50,051.87
Henry	15,868.21	25,963.19	2,175.16	44,006.56
Howard	50,196.93	18,990.69	4,102.03	73,289.65
Humboldt	32,573.61	25,343.68	125.00	58,042.29
Ida	47,152.48	31,338.47	3,848.38	82,339.33
Iowa	384.41	53,517.61	2,631.05	56,533.07
Jackson	3,172.70	33,569.74	5,961.79	42,704.23
Jasper	82,799.52	60,800.60	935.25	144,535.37
Jefferson	8,413.00	28,969.42	2,025.53	39,407.95
Johnson	151,405.23	34,171.61	10,926.25	196,503.09
Jones	48,335.08	23,224.28	4,571.20	76,130.56
Keokuk	21,582.81	32,516.35	14,780.88	68,880.04
Kossuth	11,619.26	49,173.41	11,654.53	72,447.20
Lee	173,877.36	29,119.54	2,796.06	205,792.96
Linn	103,409.65	73,543.45	7,541.84	184,494.94
Louisia	32,345.36	14,273.28	6,104.18	52,722.82
Lucas		27,834.46	812.80	28,647.26
Lyon	27,092.33	18,338.53	8,466.26	53,897.12
Madison	8,213.89	30,068.61	5,554.98	43,837.48
Mahaska	37,332.88	22,802.76	1,474.87	61,610.51
Marion	20,388.50	29,254.71	3,982.40	53,625.61
Marshall	47,505.63	21,156.35	5,467.62	74,129.60
Mills		29,407.84	1,323.00	30,730.84
Mitchell	53,482.47	54,622.28	2,423.84	110,528.59
Monona	39,197.26	22,876.12	17,438.73	79,512.11
Monroe	3,422.99	25,858.33	1,367.97	30,649.29
Montgomery		32,343.48	233.89	32,577.37
Muscatine	85,725.01	28,390.63	6,185.19	120,300.83
O'Brien	34,527.65	23,489.49	7,613.74	65,624.88
Osceola	20,497.95	20,004.20	608.12	41,110.27

SUMMARY TABLE NO. 10—Continued

County	Construction	Maintenance	Special Cases	Total
Page	10,267.86	41,826.23	8,366.74	60,460.83
Palo Alto	25,472.90	30,185.82	9,870.88	65,529.60
Plymouth	79,369.83	32,134.33	13,627.93	125,132.09
Pocahontas	27,978.21	37,433.05	15,632.69	81,043.95
Polk	68,134.28	101,506.67	6,324.77	176,252.72
Pottawattamie	5,666.02	60,565.34	7,700.05	73,931.41
Poweshiek	114,366.88	40,594.93	2,128.38	157,090.19
Ringgold	5,014.71	32,453.46	3,464.50	40,932.67
Sac	17,623.79	30,322.86	2,246.37	50,193.02
Scott	15,891.34	55,896.27	3,415.40	75,203.01
Shelby		45,490.72	12,764.44	58,255.16
Sioux	65,788.56	37,983.86	12,878.96	116,651.38
Story	52,860.77	27,697.38	2,760.00	83,318.15
Tama	425,839.24	60,116.04	20,199.72	506,155.00
Taylor		51,925.89	5,850.24	57,776.13
Union	1,312.10	24,456.17	3,571.67	29,339.94
Van Buren		29,008.85	2,800.37	31,809.22
Wapello		40,661.57	3,162.54	43,824.11
Warren	23,353.67	21,902.13	4,444.82	49,700.62
Washington	11,021.40	24,889.38	1,447.83	37,358.61
Wayne		34,829.27	3,006.98	37,836.25
Webster	38,459.24	80,534.07	10,713.08	129,706.39
Winnebago	12,986.78	19,836.78	1,352.06	34,175.61
Winnesiek	37,499.82	35,946.52	1,073.11	74,519.45
Woodbury	100,022.82	47,817.29	19,029.71	166,869.82
Worth	32,498.57	16,047.47	5,067.99	53,614.03
Wright	20,299.73	35,594.49	2,981.04	58,875.26
Totals	\$3,796,632.39	\$3,495,041.51	\$ 508,049.90	\$ 7,884,723.80

SUMMARY TABLE NO. 11

Classified Road Expenditure—Construction County Roads—Annual Report of County Engineers.

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IOWA STATE HIGHWAY COMMISSION

County	Finished Grade Standard Section		Gravel, Macadam and Sand Clay Surfacing		Tiling and Drainage Assessments	Equipment and Tools	Total Expenditure
	Miles Built	Total War- rants Issued	Miles Built	Total War- rants Issued			
Adair							
Adams							
Allamakee	4.48	\$ 13,128.08					\$ 13,128.08
Appanoose			18.75	\$ 18,937.73	\$ 114.98		19,052.66
Audubon					174.15		174.15
Benton	59.27	98,486.66	53.25	89,696.10			188,182.76
Black Hawk	10.25	29,958.58	10.01	11,177.08	3,091.14		44,226.80
Boone					517.73		517.73
Bremer	6.23	3,514.05	4.00	2,069.21	244.55	\$ 4,847.67	10,675.48
Buchanan	1.49	3,784.84	6.00	3,976.88	1,584.34	678.81	10,024.87
Buena Vista		88.00			896.38		984.38
Butler	3.50	6,719.84	7.00	4,325.53	356.28	5,147.32	16,548.97
Calhoun	.75	966.24	18.00	76,544.92	548.38		78,059.54
Carroll	18.00	15,232.34	20.50	24,873.88		591.57	40,697.79
Cass	.66	6,164.13			648.00		6,812.13
Cedar	43.95	140,633.23	38.40	87,251.99		3.50	227,888.72
Cerro Gordo	9.25	23,231.14	10.00	14,816.04	5,529.69		43,576.87
Cherokee	3.00	10,452.30	6.00	7,517.73			17,970.03
Chickasaw	9.50	16,323.01	10.50	11,061.08	3,683.86	2,950.79	34,018.74
Clarke							
Clay				574.16	103.75		677.91
Clayton	10.44	54,177.52	3.40	6,723.08			60,900.60
Clinton	8.78	42,683.09	8.82	18,274.42	181.49		61,139.00
Crawford	3.13	14,290.44	24.50	31,876.71			46,167.15
Dallas	8.73	23,070.93	8.73	14,056.67	1,447.82		38,575.42
Davis							
Decatur					424.40		424.40
Delaware	4.00	13,842.96	11.00	13,242.98			27,085.94
Des Moines							
Dickinson					314.08		314.08
Dubuque	8.61	35,736.57	5.40	11,118.02		3,380.27	50,234.86
Emmet	.25	1,086.61					1,086.61
Fayette	9.36	25,488.78	18.44	18,682.03	528.40	10,768.50	55,467.71
Floyd	13.00	35,468.51	13.00	16,566.18			52,034.69

Franklin							
Fremont	2.50	5,242.17	20.00	15,797.91	266.45		21,306.53
Greene		13,876.07					13,876.07
Grundy			10.00	33,913.13	1,397.49		35,310.62
Guthrie	3.63	17,814.12	24.38	37,729.81	6,140.91	353.22	62,038.06
Hamilton	10.85	8,830.58	6.50	9,591.63	2,613.03		21,035.24
Hancock	15.30	8,321.02	20.00	24,645.05	7,218.79	2,950.68	43,135.54
Hardin	5.00	13,773.81	11.30	10,055.55	2,902.86		26,732.22
Harrison	15.26	30,783.20	19.02	27,491.13	11,315.81		69,590.14
Henry			3.00	3,516.41	1,172.80		4,689.21
Howard	7.00	8,542.33			184.80	7,141.08	15,868.21
Humboldt	11.50	23,462.64	11.75	21,945.82	4,788.47		50,196.93
Ida	15.75	21,205.62	9.00	10,801.57	566.42		32,573.61
Iowa	9.70	31,001.45	10.17	16,151.03			47,152.48
Jackson		384.41					384.41
Jasper		1,584.75	1.70	1,587.05			3,172.70
Jefferson	15.25	49,374.41	16.00	32,450.99	271.86	702.26	82,799.52
Johnson	1.21	8,413.00					8,413.00
Jones	20.28	80,694.06	26.34	70,579.57	221.60		151,495.23
Keokuk	18.50	21,495.72	29.00	26,839.36			48,335.08
Kossuth	5.16	21,032.95		549.86			21,582.81
Lee	4.00	9,225.15	3.00	2,019.96	374.15		11,619.26
Linn	1.12	9,610.16	*7.47	162,788.33	730.45	748.42	173,877.36
Louisa	8.50	32,917.42	16.50	68,077.23		2,415.00	103,409.65
Lucas	8.00	20,725.47	4.75	11,377.13	242.76		32,345.36
Lyon							
Madison	1.91	956.25	32.00	26,046.08			27,002.33
Mahaska			3.42	8,213.89			8,213.89
Marion			23.65	36,300.88		1,029.00	37,329.88
Marshall	10.59	20,388.50					20,388.50
Mills	20.88	33,764.08	9.30	11,427.61	661.46	1,652.48	47,506.63
Mitchell							
Monona	8.15	38,902.94	12.78	14,579.63			53,482.47
Monroe	14.21	38,531.87	.25	665.39			39,197.26
Montgomery			6.50	3,422.99			3,422.99
Muscatine	15.59	49,370.91	16.21	35,062.18	1,141.96	149.96	85,725.01
O'Brien	13.70	11,702.12	17.70	22,512.21	313.32		34,527.65
Osceola			13.00	14,246.90	6,227.10	23.95	20,497.95
Page	1.10	9,794.66			473.20		10,267.86
Palo Alto	8.75	16,681.91		3,670.25	5,120.74		25,472.90
Plymouth	17.10	38,440.95	13.92	40,928.88			79,369.83
Pocahontas	1.00	3,805.83	19.75	16,179.73	7,992.65		27,978.21
Polk	19.45	41,680.23	19.97	22,950.49	3,503.46		68,134.28
Pottawattamie	.50	5,666.02					5,666.02
Poweshiek	47.00	70,774.47	17.00	43,502.41			114,276.88
Ringgold		1,966.30	1.00	3,048.41			5,014.71
Sac	8.10	7,972.85			657.75	8,996.19	17,623.79
Scott		162.74	7.68	15,728.60			15,891.34
Shelby							

REPORT OF COUNTY ENGINEERS

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SUMMARY TABLE NO. 11—Continued

County	Finished Grade Standard Section		Gravel, Macadam and Sand Clay Surfacing		Tiling and Drainage Assessments	Equipment and Tools	Total Expenditure
	Miles Built	Total War-rants Issued	Miles Built	Total War-rants Issued			
Sioux	32.60	40,106.06	27.10	25,682.51			65,788.56
Story	8.00	9,417.43	13.00	28,766.59	1,946.70	12,730.05	52,860.77
Tama	66.85	237,026.69	76.05	188,664.32	168.23		425,859.24
Taylor							
Union			.50	1,312.10			1,312.10
Van Buren							
Wapello							
Warren	5.30	23,353.67			609.11		23,353.67
Washington	1.55	10,412.29					11,021.40
Wayne							
Webster	1.98	10,572.12	25.00	25,919.63	1,967.49		38,459.24
Winnebago			12.50	12,381.54	605.24		12,986.78
Winneshiek	3.94	22,626.40	.80	14,873.42			37,499.82
Woodbury	10.45	70,336.33	16.62	26,125.59		3,560.90	100,022.82
Worth	13.95	19,717.00	9.20	11,700.60	753.47	327.50	32,498.57
Wright	5.50	13,066.21	4.00	3,046.77	674.41	3,482.34	20,299.73
Totals	753.32	\$ 1,900,065.18	934.48	\$ 1,728,324.44	\$ 98,614.31	\$ 74,628.46	\$ 3,796,632.39

*Pavement.

SUMMARY TABLE NO. 12
Showing Cost of Maintenance—County Roads—Annual Report of County Engineers.

County	Miles County Road System	Patrol		Gang		Equipment and Tools		Total Cost Maintenance	Average Cost Per Mile
		Earth	Paving	Gravel	Earth	Gravel	Earth		
Adair	114.00	\$ 11,200.93			\$ 6,462.42		\$ 15,248.92	\$ 32,912.97	\$ 289.00
Adams	116.92	10,286.88			9,027.84		8,723.58	28,037.30	240.00
Allamakee	107.50	36,172.63			6,501.45		2,905.69	38,159.01	355.00
Appanoose	134.75	8,915.63			13,100.47		6,735.57	31,079.13	231.00
Audubon	96.00	14,200.21			20,531.92		3,267.80	38,000.99	393.00
Benton	158.50	18,140.08			5,273.50		4,806.13	50,911.51	321.00
Black Hawk	124.00	2,839.94			11,828.15		692.25	31,699.84	256.00
Boone	135.35	6,151.38			711.51		2,995.36	32,509.06	241.00
Bremer	67.64	10,075.58			55.00		5,024.23	31,100.02	460.00
Buchanan	138.00	401.95			17,103.08		112.56	42,541.13	308.00
Buena Vista	164.00	12,927.76			15,084.38		568.30	47,648.85	291.00
Butler	150.50	7,729.27			5,204.12		332.41	35,026.78	233.00
Calhoun	136.00	16,112.41			1,808.72		16,910.49	34,279.28	272.00
Carroll	133.00	3,600.77			9,906.50		8,782.94	27,982.35	205.00
Cass	105.45	14,970.62			3,518.41		1,694.33	27,913.70	310.00
Cedar	90.10	15,339.50			3,323.56		4,444.24	32,701.33	276.00
Cerro Gordo	118.29	6,326.68			3,802.45		43.00	29,464.17	199.00
Cherokee	133.00	9,086.82			2,081.88		4,610.71	25,800.53	261.00
Chickasaw	98.75	2,565.92			209.10		1,811.88	19,636.19	189.00
Clarke	104.00	8,400.79			4,677.51		6,407.89	52,254.70	383.00
Clay	137.41				10,965.49		14,386.45	29,211.16	236.00
Clayton	136.50	26,800.39			10,045.24		4,277.81	30,704.60	222.00
Clinton	129.00	12,624.81			5,884.35		8,483.93	30,611.98	238.00
Crawford	83.00	6,244.85			5,240.67		8,839.71	36,017.57	724.00
Dallas	150.04	1,533.66			62.05		2,221.55	24,225.82	343.00
Davis	140.35	15,300.37			10,074.32		9,212.62	24,656.73	378.00
Decatur	128.86	17,505.63			3,446.23		4,076.46	43,055.36	306.00
Delaware	143.00	8,573.66			10,114.42		2,601.93	27,001.37	267.00
Des Moines	49.75	14,393.84			3,446.23		4,076.46	46,825.00	290.00
Dickinson	70.60	10,577.15			1,639.44		2,221.55	29,642.44	236.00
Dubuque	91.25	10,577.15			4,659.12		3,100.27		
Emmet	65.25	10,296.97			5,737.11		3,455.14		
Fayette	125.40	1,967.67			3,093.13		3,787.35		
Floyd	101.30	7,256.45			7,001.11		4,880.48		
Franklin	161.75	17,796.67			5,904.92		5,940.55		
Fremont	121.00								

SUMMARY TABLE NO. 12—Continued

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IOWA STATE HIGHWAY COMMISSION

County	Miles County Road System	Patrol			Gang			Equipment and Tools			Total Cost Maintenance	Average Cost Per Mile
		Earth	Gravel	Paving	Earth	Gravel	Paving	Earth	Gravel	Paving		
Greene	91.00	188.75	11,474.33		4,073.69	4,995.10		6,061.22	655.79		27,448.88	302.00
Grundy	120.46	4,105.35	4,606.31		4,475.21	10,155.68		5,813.71	5,329.88		34,546.14	287.00
Guthrie	128.50	21,233.40	5,859.79		10,025.07	1,524.73		19,921.83			58,564.82	463.00
Hamilton	164.20	1,496.32	18,467.61		1,776.94	18,394.57		337.38	3,290.96		43,763.78	267.00
Hancock	114.40	4,014.09	8,571.12		6,931.47			5,494.46	2,044.59		27,055.73	237.00
Hardin	121.20	3,809.86	20,975.75		3,067.87	10,344.33		2,724.00	13,691.44		54,413.25	449.00
Harrison	136.00	10,774.37			20,610.83			6,675.45			38,060.65	280.00
Henry	106.00	13,777.69			9,706.67			2,478.83			25,963.19	245.00
Howard	76.68	9,952.83	5,076.49		436.36	874.37		2,107.62	543.02		18,990.69	248.00
Humboldt	129.87	426.77	8,988.10			6,995.29			2,933.52		25,343.68	195.00
Ida	90.35	10,747.34	5,296.91		2,094.74	5,741.52		5,037.10	2,420.86		31,338.47	347.00
Iowa	146.00	16,942.99			30,454.71			6,119.91			53,517.61	367.00
Jackson	83.00	14,912.85	293.03		9,999.08			8,364.78			33,569.74	404.00
Jasper	174.25	23,883.03	14,512.75			4,950.16		13,649.98	3,804.68		60,800.60	349.00
Jefferson	103.00	16,366.26			7,385.19			5,217.97			28,969.42	281.00
Johnson	121.78	13,901.67	7,871.64		1,003.14	882.75		10,512.41			34,171.61	281.00
Jones	132.00	8,604.71	3,778.54		5,603.59	3,418.67		1,005.85	812.92		23,224.28	176.00
Keokuk	110.25	15,992.75	360.47		12,365.73	78.35		3,719.05			32,516.35	295.00
Kossuth	196.25				1,644.69	32,185.66		582.79	14,760.27		49,173.41	251.00
Lee	95.25	16,850.80	7,726.12	550.52	1,511.10			1,415.75	1,065.25		29,119.54	306.00
Linn	134.00	966.40	49,088.67		2,104.98				21,883.40		73,543.45	549.00
Louisa	70.50	13,078.78			758.90			435.60			14,273.28	202.00
Lucas	108.00	11,042.79			8,302.07			8,489.60			27,834.46	258.00
Lyon	136.75	2,257.20	12,304.05		595.25			182.03	3,000.00		18,338.53	134.00
Madison	131.75	12,189.88	295.50		9,057.49			8,534.74			30,068.61	228.00
Mahaska	89.70	5,732.96	5,530.38		9,610.95			1,011.65	916.82		22,802.76	254.00
Marion	122.31	13,801.79	581.65		10,580.88			4,290.39			29,254.71	239.00
Marshall	165.01	6,052.95	8,281.19		582.60	4,087.22		358.59	1,703.80		21,156.35	128.00
Mills	110.50	14,075.25			7,209.47			8,123.12			29,407.84	266.00
Mitchell	104.50	11,276.57	3,618.45		28,626.42	3,555.30		7,545.54			54,622.28	523.00
Monona	123.00	11,846.85			3,952.73			7,076.54			22,876.12	185.00
Monroe	122.90	7,497.94			8,812.01			9,548.38			25,858.33	210.00
Montgomery	100.00	13,585.90			8,631.00			10,126.58			32,343.48	323.00
Muscatine	57.63	2,936.50	8,808.77		3,399.93	1,772.22		4,807.68	6,665.53		28,390.63	493.00
O'Brien	113.50	5,431.28	4,305.32		1,313.09			9,805.27	2,628.53		23,483.49	207.00
Osceola	92.80	801.89	13,350.08		178.20	3,105.81		118.71	2,449.60		20,004.29	216.00
Page	146.80	12,320.77			16,679.14			12,826.32			41,826.23	285.00
Palo Alto	157.00	472.06	15,288.18			12,687.95			1,737.63		30,185.82	192.00

Plymouth	118.49	17,733.57	4,303.65		6,767.53	1,554.41		1,755.17			32,134.33	271.00
Pocahontas	150.50	188.75	29,055.33						8,188.97		37,433.05	249.00
Polk	249.62	13,018.75	65,869.49		825.00	19,352.84		432.59	2,095.00		101,593.67	407.00
Pottawattamie	232.00	48,134.41			5,353.75			7,077.18			60,565.34	261.00
Poweshiek	169.00	27,373.13						13,221.80			40,594.93	240.00
Ringgold	157.00	23,813.25			7,166.54			1,473.67			32,453.46	207.00
Sac	121.60		11,464.29			11,250.26		123.40	7,475.91		30,322.86	249.00
Scott	88.46	5,895.49	3,305.23		16,477.97	4,434.30		11,537.56	14,245.72		55,896.27	632.00
Shelby	122.70	19,524.73			5,472.33			20,493.66			45,490.72	371.00
Sioux	173.25	6,075.65	7,406.23		244.46	1,154.16		16,477.48	6,625.88		37,983.86	219.00
Story	146.00	171.40	11,146.66			7,647.34			8,731.98		27,697.38	190.00
Tama	175.00	21,366.38	19,521.30		3,601.93				15,626.43		60,116.04	344.00
Taylor	165.00	36,067.95			10,859.16			4,998.78			51,925.89	315.00
Union	107.00	8,328.86			7,736.98			8,390.33			24,456.17	229.00
Van Buren	105.75	16,105.61			9,473.24			3,425.00			29,003.85	274.00
Wapello	126.75	24,064.20			1,845.25			14,752.12			40,661.57	321.00
Warren	113.75	20,127.14			1,656.25			208.74			21,992.13	193.00
Washington	100.14	7,117.77	30.00		6,925.05	101.95		10,714.61			24,889.38	249.00
Wayne	163.00	29,955.06			7,415.79			6,458.42			34,829.27	214.00
Webster	174.25	6,550.13	22,907.81		27,938.16	5,981.53		3,567.42	13,589.03		80,534.07	462.00
Winnebago	89.30	1,895.26	3,714.51		4,823.47	4,591.67		4,389.37	422.50		19,836.78	222.00
Winneshiek	118.30	10,196.10	2,899.67		6,914.56	3,512.77		8,002.38	4,421.04		35,946.52	304.00
Woodbury	122.90	13,070.60	5,707.54		9,806.56	4,552.16		9,125.31	5,555.12		47,817.29	389.00
Worth	57.00	317.55	4,547.50			7,298.50			3,883.92		16,047.47	282.00
Wright	159.50	928.19	24,836.99					50.88	9,778.43		35,594.49	223.00
Totals	12,277.06	\$1,031,104.33	\$737,870.86	\$588.52	\$566,012.11	\$328,682.09	\$ 41.45	\$500,541.60	\$330,200.55		\$3,495,041.51	\$ 285.00

REPORT OF COUNTY ENGINEERS

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SUMMARY TABLE NO. 13
Showing Miscellaneous Items, County Expenditures—Special Cases.
Annual Report of County Engineers.

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IOWA STATE HIGHWAY COMMISSION

County	R. R. Crossings Improved		Gravel Pits Purchased		Gravel Purchased by the Yard	Right of Way	Channel Changes	Miscellaneous	Total Special Cases
	No.	Cost	No.	Cost					
Adair						\$ 892.75	\$ 12,327.19		\$ 13,219.94
Adams							60.70		60.70
Allamakee						370.00		\$ 7,487.85	7,857.85
Appanoose						767.05			767.05
Audubon						3,970.60	2,368.49	1,973.76	8,312.85
Benton									
Black Hawk			6	\$ 3,316.50	\$ 665.13	1,010.00		2,762.99	7,754.62
Boone						1,470.03		258.31	1,728.34
Bremer			5	1,404.98	1,779.65	609.70			3,794.33
Buchanan			12	2,554.20	850.45	338.31	482.56	1,737.36	5,962.88
Buena Vista			2	4,170.90	3,660.71	914.74			8,746.35
Butler					555.90	244.50			800.30
Calhoun				16,421.28		3,658.70		200.00	20,279.98
Carroll						1,030.26		257.65	1,287.91
Cass						375.78	2,480.47	706.18	3,562.43
Cedar						7,548.41	212.10	2,165.64	9,926.15
Cerro Gordo	6	\$ 2,471.00				153.40		750.20	3,374.60
Cherokee			1	812.00	1,444.15	1,828.75		6,079.97	10,164.87
Chickasaw						255.55		4,019.56	4,275.11
Clarke						855.00		1,645.90	2,500.90
Clay				4,458.38		1,037.15		2,732.21	8,227.74
Clayton						6,253.75		4,033.51	10,287.26
Clinton						8,524.21	1,050.49		9,574.70
Crawford						3,129.50			3,129.50
Dallas					6,750.78	6,465.23			13,216.01
Davis							1,689.80		2,142.80
Decatur						2,876.40	2,555.36	1,763.75	7,195.51
Delaware			3	825.00	556.70	966.28			2,347.98
Des Moines			1	724.72		2,079.75	47.87	4,455.20	7,307.54
Dickinson					2,090.21	676.91		3,006.66	5,773.78
Dubuque						2,603.70	941.52	504.00	4,229.22
Emmet			1	500.00	278.31	55.00		1,568.58	2,401.89
Fayette			1	660.50	417.45	3,143.22	97.55	1,946.85	6,265.57
Floyd			4	1,755.00	922.27	275.00	75.00		3,027.27
Franklin			8	7,070.81	2,971.90	3,264.80	203.40	1,191.08	14,701.99

Fremont						969.90	289.40	1,559.29	2,809.59
Greene						50.00		1,358.03	1,408.03
Grundy						579.60		1,982.04	2,561.64
Guthrie						2,066.43			2,066.43
Hamilton			2	925.00		228.90		26,094.77	26,094.77
Hancock						93.75		1,530.24	2,684.14
Hardin						6,611.00	691.01	5,098.42	5,192.17
Harrison						380.55	437.60	1,357.01	7,392.01
Henry			1	378.65	1,673.19	615.50		1,434.69	2,175.16
Howard						125.00			4,102.03
Humboldt			1	50.00		3,718.67		79.71	125.00
Ida						2,112.25		518.80	3,848.38
Iowa						1,087.35	999.36	2,728.90	2,631.05
Jackson					1,146.18	635.25		300.00	5,961.79
Jasper						685.15	1,340.38		935.25
Jefferson			3	1,965.00	879.80	10,851.75	74.50		2,025.53
Johnson						1,726.40			10,926.25
Jones			4	10,772.53		4,108.61	8,644.59	2,027.68	4,571.20
Keokuk						856.75		25.25	14,780.88
Kossuth						2,796.06			11,654.53
Lee						2,071.79			2,796.06
Linn	1	5,470.05				1,801.48		4,297.70	7,541.84
Louis		5.00				812.80			6,104.18
Lucas			4	1,292.42	1,436.25	1,112.55		4,625.04	812.80
Lyon						2,648.95	1,928.35	977.68	8,466.26
Madison						1,189.55		285.32	5,554.98
Mahaska						3,177.55	751.95	52.90	1,474.87
Marion					1,019.49	698.46		3,749.67	3,982.40
Marshall						238.00		1,085.00	5,467.62
Mills						1,872.39		531.45	1,323.00
Mitchell						17,138.73	300.00		2,423.84
Monona						1,132.17	235.80		17,438.73
Monroe						233.89			1,367.97
Montgomery					200.00	5,580.60		404.59	223.89
Muscatine			4	6,119.84		406.00		1,087.90	6,185.19
O'Brien					698.12				7,613.74
Osceola						4,640.61		3,736.13	698.12
Page						307.10	146.48		8,366.74
Palo Alto			4	6,689.87	2,727.43	5,399.60		456.88	9,870.88
Plymouth			3	2,573.26		407.28	5,398.19		13,627.93
Pocahontas			16	10,307.79		3,473.90		4,917.02	15,632.69
Polk				3,050.87		1,081.52	5,227.38	1,391.15	6,524.77
Pottawattamie						1,703.26		425.12	7,700.05
Poweshiek						1,170.00	286.50	1,169.80	2,128.38
Ringgold	2	\$38.20				308.35	1,080.00	858.02	3,464.50
Sac						1,125.00		50.40	2,246.37
Scott			1	2,240.00		959.58	648.65	11,156.21	3,415.40
Shelby						5,397.92		2,671.88	12,764.44
Sioux			2	4,809.16					12,878.56

REPORT OF COUNTY ENGINEERS

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SUMMARY TABLE NO. 13—Continued

County	R. R. Crossings Improved		Gravel Pits Purchased		Gravel Purchased by the Yard	Right of Way	Channel Changes	Miscellaneous	Total Special Cases
	No.	Cost	No.	Cost					
Story						160.00			2,760.00
Tama					999.50	12,372.52	6,827.70		20,190.72
Taylor						4,663.17	48.00	1,139.07	5,850.24
Union					140.00	1,525.18	1,906.49		3,571.67
Van Buren						1,963.70	836.67		2,800.37
Wapello						2,727.38	435.16		3,162.54
Warren						4,400.57	44.25		4,444.82
Washington						1,338.89		109.44	1,447.83
Wayne						537.05		2,469.93	3,006.98
Webster			4	3,900.00		733.75		6,079.33	10,713.08
Winnebago					1,287.80	38.25		26.00	1,352.05
Winneshek						417.30	18.00	637.81	1,073.11
Woodbury			1	1,000.00		14,155.96	1,668.75	2,205.60	19,029.71
Worth						792.05		4,275.94	5,067.99
Wright					854.44	2,136.60			2,981.04
Totals	9	\$ 8,784.25	94	\$ 103,148.66	\$ 30,006.71	\$ 222,517.60	\$ 64,857.66	\$ 157,736.02	\$ 503,049.90

REPORT OF COUNTY ENGINEERS

SUMMARY TABLE NO. 14

Progress and Condition Report—County Road System.
Annual Report of County Engineers.

County	Construction Completed 1928			Condition of County Road System January 1, 1929			
	Built to Permanent Grade	Gravel, Macadam or Sand Clay	Paved	Not Built	Permanent Grade Not Surfaced	Gravel, Macadam or Sand Clay	Paved
Adair				114.00			
Adams				116.92			114.00
Allamakee	4.48			91.10	13.73	2.67	116.92
Appanoose		18.75		107.25		27.50	107.50
Audubon				93.40	3.50		134.75
Benton	59.27	53.25		57.30	10.00	91.20	96.90
Black Hawk	10.25	10.01		21.00	6.00	97.00	158.50
Boone				7.25		128.10	124.00
Bremer	6.23	4.00		24.25	8.23	35.16	135.35
Buchanan	1.49	6.00		106.76		31.24	67.64
Buena Vista						164.00	138.00
Butler	3.50	7.00		101.50	3.50	45.50	164.00
Calhoun	.75	18.00				126.00	150.50
Carroll	18.00	20.50		39.00	1.00	93.00	126.00
Cass	.66			103.29	2.16		133.00
Cedar	43.95	38.40		13.25	32.40	44.45	105.45
Cerro Gordo	9.25	10.00		27.00	9.25	81.30	90.10
Cherokee	3.00	6.00		65.00	19.00	48.40	118.29
Chickasaw	9.50	10.50		33.25	7.00	58.50	133.00
Clarke				104.00			98.75
Clay						137.41	104.00
Clayton	10.44	3.40		118.66	12.54	5.30	137.41
Clinton	8.78	8.82		58.38	30.91	39.71	136.50
Crawford	3.13	24.50		12.87	17.63	52.50	129.00
Dallas	8.73	8.73		14.01		121.78	83.00
Davis				140.35			136.04
Decatur				128.86			140.35
Delaware	4.00	11.00		80.75		62.25	128.86
Des Moines				35.00	5.75	9.00	143.00
Dickinson						70.60	49.75
Dubuque	8.61	5.40		48.14	3.71	39.40	70.60
Emmet	.25				.25	65.00	91.25
Fayette	9.36	18.44		96.50	5.50	21.40	65.25
Floyd	13.00	13.00		12.20	11.00	78.10	123.40
Franklin	2.50	20.00		55.75	2.50	103.50	101.30
Fremont				130.50	.60		161.75
Greene				5.70		85.30	131.00
Grundy	3.63	24.38		52.00		68.46	91.00
Guthrie	10.85	6.50		97.37	9.63	19.50	120.46
Hamilton	15.30	20.00		17.25	11.75	135.20	126.50
Hancock	5.00	11.30		31.10	10.50	72.80	164.20
Hardin	15.26	19.02		1.50	4.41	115.29	114.40
Harrison		3.00		133.00		3.00	121.20
Henry	7.00			97.34	7.09		136.00
Howard	11.50	11.75		29.68	11.50	35.50	106.00
Humboldt	15.75	9.00		16.75	11.75	101.37	76.68
Ida	9.70	10.17		52.77	6.60	30.98	129.87
Iowa				139.00	7.00		90.35
Jackson		1.70		80.30		2.70	146.00
Jasper	15.25	16.00		112.50	8.50	53.25	83.00
Jefferson	1.21			101.12	1.88		174.25
Johnson	20.28	26.34		45.45	23.83	52.50	106.00
Jones	18.50	29.00		85.00		47.00	121.78
Keokuk	5.16			96.72	11.53	2.00	132.00
Kossuth	4.00	3.00			7.00	189.25	119.25
Lee	1.12		7.47	75.40	1.50	9.00	196.25
Linn	8.50	16.50		2.50		121.50	95.25
Louisa	8.00	4.75		42.44	19.31	8.75	134.00
Lucas				108.00			70.50
Lyon	1.91	32.00		29.25	2.00	105.50	108.00
Madison		3.42		124.38	.75	6.62	136.75
Mahaska		23.65		37.25		52.45	131.75
Marion	10.59			102.67	16.64	3.00	89.70
Marshall	20.88	9.30		53.82	19.63	91.56	122.31
Mills				110.30	.20		165.01
							110.50

SUMMARY TABLE NO. 14—Continued

County	Construction Completed 1928			Condition of County Road System January 1, 1929			Total Miles in County System
	Built to Permanent Grade	Gravel, Macadam or Sand Clay	Paved	Not Built	Permanent Grade Not Surfaced	Gravel, Macadam or Sand Clay	
Mitchell	8.15	12.78		62.63	5.99	35.88	104.50
Monona	14.21	.25		89.35	33.04	1.21	123.60
Monroe		6.50		116.40		6.50	122.90
Montgomery				98.55	1.45		100.00
Muscatine	15.59	16.21		.39	9.23	48.01	57.63
O'Brien	13.70	17.70		37.50	19.50	56.50	113.50
Osceola		13.00		12.30		80.50	92.80
Page	1.10			143.20	3.60		146.80
Palo Alto	8.75			1.25	8.75	147.00	157.00
Plymouth	17.10	13.92		76.73	12.71	29.05	118.49
Pocahontas	1.00	19.75		7.50	4.00	139.00	150.50
Polk	19.45	19.97		42.57	18.97	187.01	249.62
Pottawattamie	.50			221.50	10.50		232.00
Poweshiek	47.00	17.00		95.00	56.00	18.00	169.00
Ringgold		1.00		156.00		1.00	157.00
Sac	8.10			19.75	8.10	93.75	121.60
Scott		7.68		37.09	10.76	40.61	88.46
Shelby				121.87	.83		122.70
Sioux	32.60	27.10		72.00	21.50	79.75	173.25
Story	8.00	13.00			12.75	133.25	146.00
Tama	66.85	76.05		41.75	49.70	83.55	175.00
Taylor				164.12	.88		165.00
Union		.50		106.50		.50	107.00
Van Buren				103.75		2.00	105.75
Wapello				126.75			126.75
Warren	5.30			108.45	5.30		113.75
Washington	1.55			97.09	2.45	.60	100.14
Wayne				163.00			163.00
Webster	1.98	25.00		47.45	.30	126.50	174.25
Winnebago		12.50		41.10		48.20	89.30
Winneshiek	3.94	.80		91.43	10.57	16.30	118.30
Woodbury	10.48	16.62		38.51	29.57	54.82	122.90
Worth	13.95	9.20		1.50	6.75	48.75	57.00
Wright	5.50	4.00		22.50	6.50	130.50	159.50
Totals	753.32	937.01	7.47	6,604.13	748.76	4,911.19	12,277.06

SUMMARY TABLE NO. 15
Showing Secondary Road Districts Petitioned for, Established, Mileage, Graveled and Average Cost—January 1, 1929.
Annual Report of County Engineer.

County	Sec. Road Dist. Petitioned for	Total Mileage to Be Improved		No. Sec. Road Dist. Est.	Total Mileage to Be Graveled		Mileage Graveled Contracted		Mileage Graveled Completed		Ave. Width Ass't Dist.	Ave. Cost Per Mile Work Completed	Average Assessment Per Acre					
		County	Twp.		County	Twp.	Co.	Twp.	Co.	Twp.			1st	2nd	3rd	4th	5th	6th
Adams	2		10.00	1	6.00						1.50	\$ 976.79	.28	.21	.18	.16		
Black Hawk	2		4.00	24							1.00	1,146.71	.73	.40				
Boone	24		58.33	1							2.00	1,300.00	.63	.50				
Buchanan	75		150.00	26							1.00	813.00	.50	.38				
Buena Vista	41		150.00	33	18.00	85.00	18.00	85.00	5.25		1.00	600.00	.50	.44				
Calhoun	8		30.25	1	5.25						2.50	1,755.00	.45	.33		.08		
Cedar	10		14.00	2							1.00	1,000.00	.45	.36				
Cerro Gordo	2		27.00	17	8.73	40.70	8.73	40.70	6.94		1.00	1,291.74	.59	.35		.14	.06	
Clay	92		37.25	23	50.00	50.00	50.00	50.00	50.00		1.00	1,196.00	.65	.25				
Dallas	13		50.00	13							1.00	807.00	.68	.43				
Dickinson	10		27.50	3	5.00	27.00	5.00	27.00	5.00		2.00	754.24	.29	.21		.12	.10	.05
Emmet	6		12.25	9	3.00	32.75	3.00	32.75	2.00		1.00	602.50	.29	.15		.11		
Floyd	11		12.25	11	3.00	12.25	3.00	12.25	2.00		1.00	1,342.50	.40	.30		.30		
Franklin	15		12.25	2	5.75	6.50	5.75	6.50	21.00		1.00	1,178.87	.59	.35		.15	.05	
Greene	5		19.00	3	5.75	21.00	5.75	21.00	4.50		2.00	850.00	.33	.23		.05		
Guthrie	8		29.00	1	4.50		4.50		5.00		1.00	1,103.30	.80	.40				
Hamilton	2		5.00	1	5.00		5.00		15.00		1.00	850.00	.25	.18		.12	.07	.06
Hancock	2		15.00	1	3.00		3.00		3.00		1.00	1,300.00	.45	.32		.45		
Humboldt	20		96.00	10	3.00	38.00	3.00	38.00	21.05		1.25	2,046.00	1.18	.68		.39	.29	
Jones	42		105.00	16	4.17	44.51	4.17	44.51	3.42		2.00	1,540.00	.50	.25		.15	.10	
Kossuth	5		2.25	3					3.42		1.00	1,000.00	.50	.30				
Linn	9		39.75	6	7.50	30.25	3.50	39.75	3.50		1.00	1,000.00	.50	.30				
Madison	19		45.60	1	8.00	30.75	8.00	30.75	8.00		1.00	1,028.00	.50	.30				
Muscatine	20		36.43	6	20.00	3.00	20.00	3.00	17.00		1.00	1,150.00	.75	.45				
O'Brien	15		26.43	14	3.60	34.00	3.60	29.50	23.25		1.00	2,750.00	.60	.43				
Palo Alto	7		26.00	3	6.50	38.75	6.50	38.75	27.50		1.00	1,400.00	.60	.43				
Pocahontas	9		15.75	16	9.37	65	9.37	65	65		1.00	2,737.05	.62	.40		.24	.20	
Sac	13		27.50	3	130.75	1,116.10	130.75	1,116.10	127.67		1.50	\$ 1,264.70	.57	.37		.24	.16	.10
Shelby	1		7.00	1	21.42	9.00	21.42	9.00	17.56		3.00							
Story	1		9.00	3														
Webster	13		27.50	16														
Winneshiek	1		7.00	1	9.37	65	9.37	65	65		1.00	2,737.05	.62	.40		.24	.20	
Woodbury	1		21.42	5														
Wright	5		9.00	3														
Totals	448		1,116.10	286	159.89	650.29	146.13	516.21	127.67	454.48	1.50	\$ 1,264.70	.57	.37		.24	.16	.10

SUMMARY TABLE NO. 16

Showing Number and Value of Gravel Pits Owned by Counties
January 1, 1929.
Annual Report of County Engineers.

County	No.	Value
Adair		
Adams		
Allamakee	2	\$ 3,000.00
Appanoose		
Audubon		
Benton	1	250.00
Black Hawk	41	8,000.00
Boone	2	5,434.00
Bremer	24	6,000.00
Buchanan	38	5,000.00
Buena Vista	7	10,000.00
Butler	16	9,000.00
Calhoun	19	20,000.00
Carroll		
Cass		
Cedar		
Cerro Gordo	24	9,000.00
Cherokee	3	1,500.00
Chickasaw	25	3,000.00
Clarke		
Clay	55	15,000.00
Clayton		
Clinton		
Crawford	1	25,000.00
Dallas		
Davis		
Decatur		
Delaware	12	1,900.00
Des Moines	1	800.00
Dickinson	1	400.00
Dubuque	1	600.00
Emmet	4	1,800.00
Fayette	3	1,500.00
Floyd	17	2,500.00
Franklin	8	4,000.00
Fremont		
Greene	1	500.00
Grundy	1	500.00
Guthrie	2	50.00
Hamilton		
Hancock	7	1,200.00
Hardin		
Harrison		
Henry		
Howard	13	4,500.00
Humboldt	4	1,000.00
Ida	4	2,000.00
Iowa		
Jackson		
Jasper		
Jefferson		
Johnson		
Jones	10	4,000.00
Keokuk		
Kossuth	72	65,000.00
Lee		
Linn	12	4,000.00
Louisa	1	600.00
Lucas		
Lyon	9	4,000.00
Madison		
Mahaska		
Marion	1	500.00
Marshall	2	500.00
Mills		
Mitchell	6	6,952.50
Monona		
Monroe		
Montgomery		
Muscatine	2	400.00
O'Brien	13	1,500.00

SUMMARY TABLE NO. 16—Continued

County	No.	Value
Osceola		
Page	12	8,000.00
Palo Alto		
Plymouth	5	7,500.00
Pocahontas	3	2,373.26
Polk	32	6,542.00
Pottawattamie	3	1,000.00
Poweshiek		
Ringgold		
Sac		
Scott	3	1,200.00
Shelby	3	7,500.00
Sioux		
Story	6	3,000.00
Tama	5	2,800.00
Taylor		
Union		
Van Buren		
Wapello		
Warren		
Washington		
Wayne		
Webster	4	13,000.00
Winnebago		
Winneshiek		
Woodbury	3	3,200.00
Worth	7	7,000.00
Wright	3	1,100.00
Total	554	\$ 296,301.76

SUMMARY TABLE NO. 17

Showing Total and Relative Cost of Maintenance of Earth, Gravel and Paved Roads by Counties—County Road System.

County	Earth			Gravel			Paved			Total Cost Maintenance Earth, Gravel and Paved Roads
	Number of Miles	Cost Maintenance	Average Cost Per Mile	Number of Miles	Cost Maintenance	Average Cost Per Mile	Number of Miles	Cost of Maintenance	Average Cost Per Mile	
Adair	114.00	\$ 32,912.27	\$ 289							
Adams	116.92	28,037.30	240							\$ 32,912.27
Allamakee	104.83	35,580.75	339	2.67	\$ 2,578.26	\$ 965				28,037.30
Appanoose	107.25	28,760.67	268	27.50	2,318.46	84				38,159.01
Audubon	96.90	38,099.39	393							31,079.13
Benton	67.30	28,219.71	419	91.30	22,691.80	249				38,099.39
Black Hawk	27.00	3,502.19	130	97.00	28,191.65	291				50,911.51
Boone	7.25	14,733.51	2,032	128.10	17,895.55	139				31,698.84
Bremer	32.48	15,811.12	487	35.16	15,288.90	435				32,599.06
Buchanan	106.76	569.51	5	31.24	41,971.62	134				31,100.02
Buena Vista				164.00	47,648.85	291				42,541.13
Butler	105.00	25,176.38	240	45.50	9,800.40	217				47,648.85
Calhoun		17.43		126.00	34,261.85	272				35,036.78
Carroll	40.00	4,907.79	123	93.00	12,002.70	129				34,279.28
Cass	105.45	27,982.35	265							16,910.49
Cedar	45.65	22,402.79	491	44.45	5,510.91	124				27,982.35
Cerro Gordo	36.25	6,376.48	176	81.30	26,286.85	323				27,913.70
Cherokee	84.00	20,264.94	240	48.40	6,190.23	128	.74	\$ 38.00	\$ 51	32,701.33
Chickasaw	40.25	4,646.90	115	58.50	21,153.63	362				26,404.17
Clarke	104.00	19,636.19	188							25,800.53
Clay				137.41	40,293.28	293				19,636.19
Clayton	131.20	51,232.08	390	5.30	1,022.62	193				40,293.28
Clinton	89.29	22,786.97	255	39.71	6,424.19	162				52,254.70
Crawford	30.50	19,969.45	655	52.50	10,437.63	199				29,211.16
Dallas	14.01	10,435.42	745	121.78	20,227.73	166	.25	41.45	106	30,407.08
Davis	140.35	32,590.51	232							30,704.60
Decatur	128.86	30,611.98	238							32,590.51
Delaware	80.75	16,396.35	203	62.25	15,964.17	256				30,611.98
Des Moines	40.75	18,554.83	455	9.00	17,462.74	1,940				32,360.52
Dickinson				70.60	24,225.82	343				36,017.57
Dubuque	51.85	18,726.54	361	39.40	11,341.33	289				24,225.82
Emmet	.25			65.00	24,656.73	379				30,067.87
Fayette	102.00	19,479.22	191	21.40	24,456.04	1,143				24,656.73
Floyd	23.20	6,154.15	265	78.10	20,937.22	268				43,935.26
Franklin	58.25	19,198.04	330	103.50	27,626.90	267				27,091.37
Fremont	131.00	29,642.44	226							46,825.00
										29,642.44

Greene	5.70	10,323.66	1,811	85.30	17,125.22	201				27,448.88
Grundy	52.00	14,394.27	277	68.46	20,151.87	294				34,546.14
Guthrie	107.00	51,180.20	479	19.50	7,384.52	379				58,564.82
Hamilton	29.00	3,610.64	125	135.20	40,153.14	297				43,763.78
Hancock	41.60	16,440.02	395	72.80	10,615.71	146				27,055.73
Hardin	5.91	9,401.73	1,591	115.29	45,011.52	390				54,413.25
Harrison	133.00	38,060.65	286	3.00						38,060.65
Henry	104.43	25,963.19	249				1.57			25,963.19
Howard	41.18	12,496.81	303	35.50	6,493.88	183				18,990.69
Humboldt	28.50	426.77	15	101.37	24,916.91	246				25,343.68
Ida	59.37	17,879.18	301	30.98	13,459.29	434				31,338.47
Iowa	146.00	53,517.61	367							53,517.61
Jackson	80.30	33,276.71	414	2.70	293.03	109				33,569.74
Jasper	121.00	37,533.01	310	53.25	23,267.59	437				60,800.60
Jefferson	103.00	28,969.42	281							28,969.42
Johnson	69.28	25,417.22	367	52.50	8,754.39	167				34,171.61
Jones	85.00	15,214.15	179	47.00	8,010.13	170				32,224.28
Keokuk	108.25	32,077.53	296	2.00	438.82	219				32,516.35
Kossuth	7.00	2,227.48	318	189.25	46,945.93	248				49,173.41
Lee	76.90	19,777.65	257	9.00	8,791.37	977	9.35	550.52	59	29,119.54
Linn	2.50	3,071.38	1,229	131.50	70,472.07	536				73,543.45
Louis	61.75	14,273.28	231	8.75						14,273.28
Lucas	108.00	27,834.46	258							27,834.46
Lyon	31.25	3,034.48	97	105.50	15,304.05	145				18,338.53
Madison	125.13	29,773.11	238	6.62	205.50	45				30,008.61
Mahaska	37.25	16,355.56	439	52.45	6,447.20	123				22,802.76
Marion	119.31	28,673.06	240	3.00	581.65	194				29,254.71
Marshall	73.45	6,094.14	952	91.56	14,162.21	155				21,136.35
Mills	110.50	29,407.84	266							29,407.84
Mitchell	68.62	47,448.53	691	35.88	7,137.75	200				54,622.28
Monona	122.39	22,876.12	187	1.21						22,876.12
Monroe	116.40	25,858.33	222	6.50						25,858.33
Montgomery	100.00	32,343.48	323							32,343.48
Muscatine	9.62	11,144.11	1,158	48.01	17,246.52	359				28,390.63
O'Brien	57.00	16,549.84	290	56.50	6,933.85	123				23,483.49
Osceola	12.30	1,098.80	89	80.50	18,905.49	235				20,004.29
Page	146.80	41,836.23	285							41,836.23
Palo Alto	10.00	472.06	47	147.00	29,713.76	202				30,185.82
Plymouth	89.44	26,276.27	294	29.05	5,858.06	202				32,134.33
Pocahontas	11.50	188.75	16	139.00	37,244.30	268				37,433.05
Polk	61.54	14,276.34	233	187.01	87,317.33	467	1.07			101,593.67
Pottawattamie	232.00	60,565.34	261							60,565.34
Poweshiek	151.00	40,594.93	269	18.00						40,594.93
Ringgold	156.00	32,453.46	208	1.00						32,453.46
Sac	27.85	123.40	5	93.75	30,199.46	322				30,322.86
Scott	47.85	33,911.02	709	40.61	21,985.25	541				55,896.27
Shelby	122.70	45,490.72	371							45,490.72
Sioux	98.50	22,797.59	244	79.75	15,186.27	190				37,983.86
Story	12.75	171.49	13	133.25	27,525.98	207				27,697.38

SUMMARY TABLE NO. 17—Continued

County	Earth			Gravel			Paved			Total Cost Maintenance Earth, Gravel and Paved Roads
	Number of Miles	Cost Maintenance	Average Cost Per Mile	Number of Miles	Cost Maintenance	Average Cost Per Mile	Number of Miles	Cost of Maintenance	Average Cost Per Mile	
Tama	91.45	24,968.31	273	83.55	35,147.73	421				60,116.04
Taylor	165.00	51,925.89	315							51,925.89
Union	106.50	24,456.17	230	.50						24,456.17
Van Buren	103.75	29,003.85	280	2.00						29,003.85
Wapello	126.75	40,661.57	321							40,661.57
Warren	113.75	21,992.13	193							21,992.13
Washington	99.54	24,757.43	249	.60	131.05	220				24,889.38
Wayne	163.00	34,829.27	214							34,829.27
Webster	47.75	38,055.71	797	126.50	42,478.36	336				80,534.07
Winnebago	41.10	11,108.10	270	48.20	8,728.68	181				19,836.78
Winneshiek	102.00	25,113.04	246	16.30	10,833.48	665				35,946.52
Woodbury	68.08	32,002.47	470	54.82	15,814.82	288				47,817.29
Worth	8.25	317.55	38	48.75	15,729.92	323				16,047.47
Wright	29.00	979.07	34	130.50	34,615.42	265				35,594.49
Totals	7,352.89	\$2,097,658.04	\$ 285	4,911.19	\$1,396,753.50	\$ 284	12.98	\$ 629.97	\$ 49	\$ 3,495,041.51

SUMMARY TABLE NO. 18

Amount of Bridge and Road Work Planned by and Constructed Under Supervision of County Engineer During 1928.
Annual Report of County Engineers.

County	Bridges		Roads		Number Miles County and Township Roads			
	Planned	Constructed	Planned	Constructed	Surveyed	Platted	Grade Line Approved by Dist. Engr.	Profiles Approved by Commission
Adair	\$ 23,491.52	\$ 30,280.19						
Adams	16,775.98	29,547.89		\$ 28,098.00				
Allamakee	29,753.00	32,000.00	\$ 13,000.00	40,000.00	4.50	4.50		
Appanoose	1,695.50	15,118.50		50,898.84				
Audubon	16,948.78	36,201.10		46,500.00	13.00			
Benton	51,610.79	78,539.57	189,241.86	239,094.27	10.50	38.90	34.90	
Black Hawk	38,709.00	48,122.97	44,236.80	83,675.26	13.00	1.25	7.25	7.25
Boone	27,617.23	34,634.48	17,000.00	125,000.00	6.50		.50	
Bremer	24,000.07	51,768.67	5,058.24	45,569.83	19.27	8.50	4.50	
Buchanan	21,902.00	36,000.00	4,940.00	54,500.00	1.49	1.49		
Buena Vista	13,675.00	16,656.06		126,873.18				
Butler	53,867.95	70,000.00	16,000.00	30,000.00	17.00	7.00	5.00	
Calhoun	9,519.70	47,256.97	130,000.00	132,618.00	114.00	89.00	89.00	1.00
Carroll	21,065.00	44,208.00	15,232.44	58,896.19	23.25	17.25	17.25	
Cass	49,670.00	70,478.37	14,200.00	36,912.67	2.25	2.25	1.30	1.30
Cedar	19,041.03	57,155.28	51,617.59	241,812.92	5.00	34.00	34.00	34.00
Cerro Gordo	17,390.36	20,554.96			11.00	9.25	9.25	
Cherokee	52,069.30	46,896.06	6,840.00	44,142.00	10.25	4.00	9.50	
Chickasaw	13,800.00	30,000.00	15,000.00	49,000.00	15.00	5.00		
Clarke	6,545.00	35,000.00		25,000.00				
Clay	7,250.00	20,000.00	75,000.00	140,000.00	33.00	33.00	33.00	
Clayton	23,111.92	47,105.52	60,900.60	123,442.56	12.80	12.60	12.60	12.60
Clinton	62,639.50	86,764.56	103,553.46	99,924.86	8.60	8.60	8.40	
Crawford	42,440.00	50,000.00	25,000.00	50,000.00	10.00	6.00	5.13	
Dallas	26,369.60	55,500.00	68,000.00	140,000.00	31.60	27.56	21.53	
Davis	13,895.00	45,392.87		38,401.74				
Decatur	2,700.87	24,636.12	8,000.00	32,488.76	4.60	4.00		
Delaware	24,882.00	22,523.44	21,000.00	51,375.32		9.60	9.60	
Des Moines	13,014.54	13,158.41			2.00	2.00	1.00	
Dickinson	16,254.00	15,600.00	91,962.00	122,275.00	47.00	47.00	47.00	14.00
Dubuque	30,000.00	60,000.00	55,000.00	100,000.00	8.00	5.00		
Emmet	1,861.00	7,188.34	15,000.00	42,467.14	98.00	17.75	37.75	
Fayette	56,672.00	69,004.29	53,000.00	90,553.13	13.65	5.25		
Floyd	26,523.08	30,784.42	28,643.70	125,382.74	39.00	10.00	10.00	10.00
Franklin	8,576.41	16,469.07	24,480.00	55,174.66	32.75	32.75	6.75	
Fremont	5,500.00	41,880.00	22,000.00	46,328.10	4.00	4.00	3.12	3.12

SUMMARY TABLE NO. 18—Continued

County	Bridges		Roads		Number Miles County and Township Roads			
	Planned	Constructed	Planned	Constructed	Surveyed	Platted	Grade Line Approved by Dist. Engr.	Profiles Approved by Commission
Greene	18,610.30	42,657.94	4,000.00	115,000.00	19.95	19.95	19.95	19.95
Grundy	13,355.03	19,076.70	43,634.80	67,615.29	92.25	8.50	2.50	13.70
Guthrie	17,569.23	40,122.52	21,035.24	64,170.23	13.70	13.70	13.70	13.70
Hamilton	14,977.00	18,000.00		120,000.00	14.00			
Hancock	12,430.00	22,225.82		67,000.00	26.50	17.50	9.50	
Hardin	27,497.56	40,012.04		1,200.00	.50	.50		
Harrison	18,636.52			139,195.96	4.00		15.26	2.00
Henry	10,635.00	31,540.86		40,000.00	20.50	7.10	7.10	
Howard	7,659.00	43,000.00		73,000.00	6.50	14.25	14.25	
Humboldt				75,000.00	30.50	28.50	8.25	4.00
Iola	25,141.00			71,925.00	8.50	6.60	6.60	6.60
Jackson	19,450.00	30,375.00						
Jasper		33,395.94						
Jefferson	79,270.00	65,224.31	3,172.70	39,531.53	12.60	12.60	1.10	1.10
Johnson	11,059.40	106,000.00	68,000.00	146,000.00	36.50	32.50	21.25	
Jones	53,053.16	17,721.51	8,510.46	32,104.45	1.21	1.21	1.21	1.21
Keokuk	12,117.50	89,192.76	220,211.00	196,503.00	18.00	30.78	19.19	19.19
Kossuth	31,125.00	32,500.00	30,000.00	62,500.00	10.00	10.00	3.50	
Lee	2,310.00	27,390.35	20,000.00	21,582.81	7.10	7.10	5.16	
Linn	24,125.00	30,000.00	42,000.00	110,000.00	27.00	27.00	21.00	21.00
Louis	47,725.29	64,124.65	50,000.00	305,792.96	26.20	11.10	7.21	7.21
Lucas		45,314.21	19,827.60	176,953.10	82.40	28.30	28.30	28.30
Lyon		21,447.74		52,725.98	6.50			
Madison	20,020.00	18,779.22	52,250.00	28,647.16				
Mahaska	20,115.00	25,000.00		52,725.98	16.00	33.00	29.00	16.00
Marion	42,941.20	65,000.00		10,210.00	12.00			
Marshall	15,827.74	42,000.00		62,000.00	12.00			
Mills	22,006.16	41,395.42	50,000.00	60,000.00	28.23	22.22	10.34	10.34
Mitchell	1,308.82	45,209.81	20,250.00	126,106.01	9.00	9.00	8.00	
Monona	16,829.00	34,597.78		30,730.84				
Monroe	26,839.00	48,794.16	37,525.47	110,598.59	7.00	16.62	16.62	
Montgomery	11,069.47	26,335.62	58,000.00	72,435.57	26.24	25.24	16.79	16.79
Muscatine	16,837.90	46,765.66		16,309.95				
O'Brien	48,626.50	42,965.83	5,000.00	32,577.37	5.00	1.75		
Osceola	19,020.00	29,350.00	47,007.90	173,705.00	20.45	15.79	16.90	
Page	16,177.16	17,207.19	22,000.00	124,000.00	33.75	21.25	21.25	21.25
Palo Alto	17,955.00	92,503.86	42,000.00	42,000.00	9.50	6.30	6.30	
Plymouth	36,031.96	40,000.00	10,267.86	60,400.83	2.50	2.50	1.50	1.50
	39,157.30	76,347.71	55,000.00	75,000.00	42.00	42.00		
			50,000.00	135,132.00	28.00	18.00	18.00	18.00

Pocahontas	5,725.00	23,113.56	65,498.67	151,381.27	30.00	30.50	14.00	14.00
Polk	44,821.84	86,237.83	68,134.28	176,252.72	25.47	17.27	15.77	15.77
Pottawattamie	23,280.00	65,562.70		66,000.00	10.50	10.50	.50	.50
Poweshiek	67,452.00	45,000.00	101,575.00	115,000.00	36.00	36.00	36.00	36.00
Ringgold	17,306.95		8,000.00		1.50			
Sac	32,347.11	55,967.74	18,114.86	78,886.98	53.40	19.00	5.00	5.00
Scott	17,466.42	41,325.81		75,203.01	20.50			
Shelby	22,717.40	84,134.81		58,255.16	.83	.83		
Sioux	29,887.50	43,207.31	80,000.00	125,000.00	53.50	33.00	38.00	38.00
Story	10,000.00	50,000.00	40,000.00	90,000.00	14.00	9.50	9.50	9.50
Tama	66,400.00	135,382.20	255,000.00	481,890.43	73.30	77.85	74.10	74.10
Taylor	40,150.00	46,807.00		22,000.00				
Union	8,200.00	31,432.20			18.00			
Van Buren	10,200.34	45,531.19						
Wapello	9,338.00	48,034.02		47,141.06				
Warren	14,453.75	48,087.06	23,353.67	49,790.62	2.60	2.60	2.10	2.10
Washington	33,583.50	59,706.12	19,382.00	37,358.61	10.55	5.76	5.76	5.76
Wayne	17,435.00	36,982.60		37,836.25				
Webster			7,700.00	216,440.03	15.80	4.80	2.30	2.30
Winnebago	16,840.72							
Winneblesh	49,530.00	54,000.00	37,500.00	60,000.00	12.50	12.50	4.25	4.25
Woodbury	33,406.00	76,393.62	60,252.32	137,284.06	12.48	13.48	10.48	10.48
Worth	15,080.00	19,010.52	38,500.00	55,000.00	2.95	13.95	13.95	13.95
Wright	18,620.00	15,947.80	34,114.00	66,250.91	61.65	13.00	13.00	13.00
Totals	\$2,307,112.17	\$4,053,101.71	\$3,137,304.52	\$7,941,828.91	1,789.10	1,927.90	1,002.77	435.10

SUMMARY TABLE NO. 19
Showing County Engineering Costs—Annual Report of County Engineers.

County	Roads					Bridges					Total Cost of Eng- neering
	County Engineer		Assistant Engineer		Total	County Engineer		Assistant Engineer		Total	
	Salary	Expense	Salary	Expense		Salary	Expense	Salary	Expense		
Adair	\$ 1,000.00	\$ 225.95	\$ 450.00		\$ 1,675.95	\$ 1,000.00	\$ 225.95	\$ 450.00		\$ 1,675.95	\$ 3,351.90
Adams	1,300.00				1,300.00	1,300.00				1,300.00	2,600.00
Allamakee	759.91	178.14	805.65	\$ 123.47	1,867.17	1,159.90	356.29	600.00	\$ 100.00	2,216.19	4,083.36
Appanoose	887.89	445.76	260.40		1,594.05	887.89	445.77	260.40		1,594.06	3,188.11
Audubon	873.33	426.30	400.00		1,699.63	873.33	426.30	162.80		1,462.43	3,162.06
Benton	2,000.00	1,400.00	1,000.00		4,400.00	1,000.00	833.57	231.63		2,065.20	6,465.20
Black Hawk	1,185.92	286.70	3,733.46	525.66	5,731.74	1,185.92	286.70	1,886.72	269.82	3,629.16	9,360.90
Boone	1,800.26	825.71	1,700.00	292.00	4,617.97	855.00	500.00	488.00	110.95	1,783.95	6,401.92
Bremer	1,364.63	289.24	1,576.93	8.80	3,239.60	682.31	144.62	394.23	3.20	1,224.36	4,463.96
Buchanan	1,456.79	411.71	287.56		2,156.06	836.98	236.65	202.86		1,276.49	3,432.55
Buena Vista	1,740.46	684.80	1,818.29	452.64	4,696.19	160.44	92.64	137.17	49.04	439.29	5,135.48
Butler	1,400.00	600.00	800.00		2,800.00	700.00	349.00	226.36		1,275.36	4,075.36
Calhoun	1,000.00	700.00	2,833.65	646.90	5,180.55	1,400.00	908.98			2,308.98	7,489.53
Carroll	1,300.00	459.20	692.50		2,451.70	1,300.00	459.20	692.50		2,451.70	4,903.40
Cass	1,015.00	70.99	88.62		1,174.61	1,025.00	106.65	502.40		2,234.05	3,408.66
Cedar	1,852.37	375.84	7,142.42	1,562.55	10,933.18	793.88	161.07	1,785.60	390.64	3,131.19	14,064.37
Cerro Gordo	2,110.25	501.45	1,287.00		3,898.70	1,015.25	110.10	1,000.00		2,125.35	6,024.05
Cherokee	1,556.00	1,290.27	2,393.25	44.99	5,284.51	844.00	699.31	1,569.73	28.49	3,141.53	8,426.04
Chickasaw	1,464.50	531.35	402.55		2,398.40	732.25	265.70	201.30		1,199.25	3,597.65
Clarke	1,075.00	335.85	28.00		1,438.85	1,075.00	335.85			1,410.85	2,849.70
Clay	1,353.60	339.60	4,543.95	1,125.65	7,362.80	310.80	74.07	510.70	148.80	1,050.37	8,413.17
Clayton	858.48	392.75	998.13		2,249.36	858.48	392.75	998.12		2,249.36	4,498.72
Clinton	1,948.80	754.61	3,302.45	47.55	6,053.41	796.00	308.22	1,362.20	148.10	2,614.52	8,667.93
Crawford	1,179.39	332.30	1,825.00	269.40	3,606.09	1,086.86	310.80	816.00	167.30	2,380.96	5,987.05
Dallas	1,677.32	1,348.19	4,164.59	1,374.14	8,564.24	812.77	383.75	54.70	20.35	1,271.57	9,835.81
Davis	1,123.56	42.00	9.20		1,174.76	1,123.57	42.09	9.20		1,174.86	2,349.62
Decatur	855.00	50.10	531.95		1,437.05	855.00	50.10	531.95		1,437.05	2,874.10
Delaware	1,134.79	323.98	672.73	42.70	2,174.20	1,134.80	323.99	522.62	42.70	2,024.11	4,198.31
Des Moines	963.33		550.00	100.00	1,583.33	963.33		550.00	100.00	1,583.33	3,166.66
Dickinson	1,087.50	697.35	1,775.70		3,560.55	1,087.50	697.35	1,775.70		3,560.55	7,121.10
Dubuque	1,500.00	45.00	2,400.00		3,945.00	1,500.00	45.00	2,400.00		3,945.00	7,890.00
Emmet	1,369.41	179.67	4,729.68		6,269.76	1,369.41	179.67	4,729.68		6,269.76	12,539.52
Fayette	1,073.42	300.00	2,351.87	527.63	4,252.92	1,073.42	300.00	2,351.87	527.63	4,252.92	8,505.84
Floyd	900.00	271.71	3,327.97		4,499.68	900.00	271.71	3,327.97		4,499.68	8,999.36
Franklin	1,812.67	1,153.49	4,600.12	27.20	7,593.48	1,812.67	1,153.49	4,600.12	27.20	7,593.48	15,186.96
Fremont	1,420.25	630.20	612.00		2,662.45	1,420.25	630.20	612.00		2,662.45	5,324.90

Greene	1,554.16	677.63	1,844.50	610.08	4,086.37	777.08	339.92	922.25	303.54	2,342.79	7,029.16
Grundy	1,940.73	699.52	2,688.45	567.28	5,885.98	515.90	122.48	505.43	66.40	1,210.21	7,096.19
Guthrie	1,789.26	380.09	892.84	450.00	3,512.19	910.74	210.40	419.12	250.00	1,790.26	5,302.45
Hamilton	1,735.79	1,246.90	893.46	85.85	3,962.00	404.34	337.06	150.54	70.50	962.44	4,924.44
Hancock	775.07	826.32	2,096.30	12.70	3,710.39	555.42	237.04	68.50	7.50	868.46	4,578.85
Hardin	1,564.57	163.31	6,749.10	676.48	9,155.46	521.53	62.03	1,244.81	127.01	1,955.38	11,110.84
Harrison	860.20	340.31	460.00		1,660.51	563.22	163.00	124.00		850.22	2,510.73
Henry	1,418.66	8.99	928.40		2,356.05	698.00				698.00	3,054.05
Howard	1,047.73	531.15	3,423.04	412.10	5,414.02	460.35	163.85	343.70	72.60	1,040.50	6,454.52
Humboldt	1,871.24	464.80	1,068.50	514.00	3,918.64	8.97	4.00			12.97	3,931.61
Ida	790.06	235.50	1,234.90	386.50	2,646.96	1,045.25	172.20	245.00	76.70	1,539.15	4,186.11
Iowa	883.57	10.56	462.09		1,356.22	820.36	10.56	552.27		1,383.19	2,739.41
Jackson	910.81	254.58	1,383.72		2,549.11	1,306.21	381.87	2,075.57		3,823.65	6,372.76
Jasper	1,800.00	489.50	3,507.52	56.76	5,853.78	1,500.00	358.60	1,001.50	29.35	2,889.45	8,743.23
Jefferson	922.40		454.08		1,446.48	992.45		454.08		1,446.53	2,893.01
Johnson	1,393.89	438.26	4,355.89	229.37	6,417.41	1,393.89	438.27	3,043.30	229.38	5,104.84	11,522.25
Jones	1,283.79	414.70	1,442.18	298.40	3,439.07	805.60	183.10	247.32	120.90	1,356.92	4,795.99
Keokuk	1,500.00	18.91	1,150.00		2,668.91	1,500.00	18.92	1,150.00		2,668.92	5,337.83
Kossuth	1,071.03	234.77	2,200.63	339.34	3,845.77	535.00	117.80	733.52	113.12	1,498.94	5,344.71
Lee	1,139.36	600.00	3,537.73	362.00	5,639.09	1,139.36	211.86	1,886.90	181.12	3,419.24	9,058.33
Linn	1,507.50	528.59	5,130.35	637.34	7,803.78	1,507.50	528.59	5,130.35	637.34	7,803.78	15,607.56
Louis	1,889.15	983.27	1,707.45	1.61	4,581.48	612.02	282.40	198.20	.10	1,092.72	5,674.20
Lucas	1,350.00		1,350.00		2,700.00	1,350.00				2,700.00	5,400.00
Lyon	1,500.00	527.34	1,356.31	151.58	3,535.23	531.84	260.00			791.84	4,327.07
Madison	1,108.80	163.53	504.00		1,776.33	1,355.20	199.87	616.00		2,171.07	3,947.40
Mahaska	1,643.64	350.00	170.00		2,163.64	1,244.00	209.00	300.94		1,754.93	3,917.67
Marion	1,900.00	237.40	979.73		3,117.15	1,000.00	120.00	450.00		1,570.00	4,687.15
Marshall	1,167.98	415.38	2,839.42	635.77	5,058.55	778.66	276.92	709.85	423.85	2,189.28	7,247.83
Mills	762.68	194.63	84.48		1,041.79	762.68	194.63	84.48		1,041.80	2,083.59
Mitchell	913.15	256.40	8,333.71		9,503.26	913.15	256.40	400.00		1,569.55	11,072.81
Monona	945.71	328.11	1,527.40	16.88	2,818.10	1,418.57	296.98	381.85	4.22	2,101.62	4,919.72
Monroe						1,800.00				1,800.00	3,600.00
Montgomery	757.16	208.60	238.68		1,194.44	1,135.75	305.39	358.04		1,799.18	2,994.62
Muscatine	1,393.91	343.91	3,521.03	341.04	5,599.89	697.50	171.60	1,757.60	170.50	2,797.20	8,397.09
O'Brien	2,100.00		2,981.16	658.92	5,740.08	700.00		998.72	219.64	1,918.36	7,658.44
Osceola	1,711.91	402.99	502.39		2,617.29	110.44	56.40			166.84	2,784.13
Page	1,387.50		843.87		2,231.37	1,387.50	397.73	843.88		2,629.11	4,860.48
Palo Alto	1,443.24	335.10	2,575.40	486.70	4,840.44	667.85	182.90	358.00	306.00	1,509.75	6,350.19
Plymouth	1,553.81	470.51	4,972.69		6,997.01	776.91	235.96	552.52		1,564.69	8,561.70
Pocahontas	1,358.37	421.89	4,394.12	887.43	6,971.81	322.53	51.36	339.80	19.27	732.96	7,704.77
Polk	1,291.31	337.30	8,275.00	801.00	10,705.21	1,291.32	397.30	2,550.00		4,238.62	15,003.83
Pottawattamie	1,200.00		600.00		1,800.00	1,200.00		600.00		1,800.00	3,600.00
Poweshiek	2,000.00	2,842.61	11,020.48	283.25	16,146.34	1,000.00	350.10			1,350.10	17,496.44
Ringgold	415.00	226.25	60.38		711.63	540.00	275.00	122.00		937.00	1,648.63
Sac	2,114.18	262.36	3,323.94	9.02	5,808.00	639.87	173.57	435.55		1,248.99	7,057.59
Scott	2,000.00	667.85	2,969.49	130.80	5,768.14	2,000.00	667.85	2,969.48		5,637.33	11,345.47
Shelby	844.88	409.57	94.57		1,349.02	1,155.12	539.83	126.13		1,841.08	3,190.10
Sioux	1,473.33	375.40	4,535.97	375.08	6,759.98	549.77	140.17	399.38	33.10	1,122.42	7,882.40
Story	1,824.22	630.20	232.60		2,677.02	500.00	271.85	26.50		798.35	3,475.87

SUMMARY TABLE NO. 19—Continued

County	Roads					Bridges					Total Cost of Engi- neering
	County Engineer		Assistant Engineer		Total	County Engineer		Assistant Engineer		Total	
	Salary	Expense	Salary	Expense		Salary	Expense	Salary	Expense		
Tama	2,484.10	1,152.50	20,954.87	3,982.58	28,574.05	765.06	329.60	3,835.34	1,806.80	6,736.80	35,310.85
Taylor	840.00	157.39	159.28		1,156.67	1,260.00	236.04	238.92		1,734.96	2,891.63
Union	654.00	66.43			720.43	820.38				820.38	1,540.81
Van Buren	360.00	140.00			500.00	455.00	110.20			565.20	1,065.20
Wapello	1,517.50	52.59	15.00		1,585.09	1,517.50	52.60	15.00		1,585.10	3,170.19
Warren	1,400.00	71.30	900.00	176.30	2,547.60	1,400.00	71.30	900.00	134.30	2,505.60	5,053.20
Washington	1,190.77	301.97	816.44		2,318.18	1,199.78	301.98	816.45		2,318.21	4,636.39
Wayne	1,000.00	300.00	128.62		1,428.62	1,000.00	305.25	128.62		1,433.87	2,862.49
Webster	2,205.39	421.31	5,864.23	1,635.00	10,125.93	192.00	37.80	509.10	142.00	880.90	11,006.83
Winnebago	585.20	185.60	107.50		878.30	900.00	264.75	257.00		1,421.75	2,300.05
Winneshiek	888.69	495.67	3,656.15	501.30	5,541.81	888.69	434.63	870.15	287.72	2,481.19	8,023.00
Woodbury	1,918.97	712.73	2,780.18	646.75	6,058.63	1,283.98	363.00	589.87	80.91	2,317.76	8,376.39
Worth	839.78	351.72	1,900.27	10.30	3,192.07	500.19	234.48	497.56		1,292.23	4,484.30
Wright	2,100.00	482.50	1,893.50		4,476.00	300.00	66.07	270.50		636.57	5,112.57
Totals	\$131,234.28	\$ 41,903.91	\$217,788.73	\$ 24,531.39	\$415,458.31	\$ 89,677.34	\$ 23,608.38	\$ 68,061.80	\$ 8,029.70	\$189,377.22	\$ 604,835.53

SUMMARY TABLE NO. 20
Financial Statement—County Bridge Fund—Annual Report of County Engineers.

County	Balance or Overdraft Jan. 1, 1928	Receipts During 1928				Total	Disbursements 1928	Transfers	Balance or Overdraft Jan. 1, 1928
		Tax Levy	Sale of Bonds	Refund from Primary Road Fund	Miscellaneous				
Adair	\$ 6,263.70	\$ 48,502.06		\$ 7,164.99	\$ 6,635.14	\$ 68,626.79	\$ 45,013.24		\$ 23,613.55
Adams	12,325.83	36,239.84		11,753.26	5,987.92	66,306.85	47,086.01		19,220.84
Allamakee	10,625.12	42,207.14			3,176.94	56,009.20	41,524.16		14,485.04
Appanoose	1,721.56	45,655.70		2,770.42	1,410.13	51,557.81	49,106.48		2,451.33
Audubon	5,109.74	45,083.39		1,154.00	4,314.24	55,663.37	46,625.63		9,037.74
Benton	11,318.94	63,901.74			6,404.99	81,625.67	78,212.68		3,412.99
Black Hawk	6,572.43	56,137.63		1,450.99	801.89	64,962.94	48,248.16	\$ 4,340.10	12,374.68
Boone	1,889.55	52,985.61		6,675.32	50.84	61,601.32	36,746.52	20,000.00	4,854.80
Bremer	13,542.47	54,653.93			1,396.80	69,593.20	49,044.93		20,548.27
Buchanan	1,896.92	40,331.93		1,497.72	381.14	44,077.71	41,908.84		2,168.87
Buena Vista	3,129.22	30,481.80			148.20	23,758.72	16,731.21		7,027.51
Butler	3,083.70	61,800.18		14,282.75	12,042.62	91,209.25	81,708.92		9,500.33
Calhoun	14,254.19	65,826.93			431.97	80,513.09	48,671.85		31,841.24
Carroll	*10,062.45	51,353.36		954.52		42,245.43	43,999.95		*1,754.52
Cass	16,374.15	62,302.58		11,311.16	6,366.21	96,254.10	84,279.68		11,974.42
Cedar	21,575.31	49,445.91			722.78	71,742.00	57,398.33		14,343.67
Cerro Gordo	6,201.87	49,050.60			552.45	55,804.92	28,959.70		26,845.22
Cherokee	11,164.84	65,545.52		3,299.03	1,043.11	81,062.50	70,188.06		10,874.44
Chickasaw	1,136.59	34,792.09			1,509.00	37,437.68	33,011.20		4,426.48
Clarke	619.95	28,629.90		3,000.00	599.39	32,849.24	29,237.78		3,611.46
Clay	5,978.78	25,678.91			1,268.29	32,925.98	23,989.83	8,006.76	929.39
Clayton	13,022.67	54,122.60			163.76	67,309.03	64,848.60		2,460.43
Clinton	13,973.66	71,918.06		5,764.17	1,223.19	92,879.08	85,723.36		7,155.72
Crawford	4,718.97	85,045.72		6,723.36	2,173.69	98,661.74	84,427.19		14,234.55
Dallas	*14,399.84	71,264.82		12,744.05	31,705.45	101,414.48	102,832.73		*1,418.25
Davis	1,007.44	35,614.88		21,692.72		58,315.04	51,821.18		6,493.86
Decatur	5,957.13	37,933.80		4,241.43	2,750.61	50,882.97	40,475.28		10,407.69
Delaware	8,989.50	40,962.95			718.89	50,652.34	46,622.21		4,030.13
Des Moines	3,023.32	25,982.77			5,916.98	34,923.27	30,883.87		4,039.40
Dickinson	12,176.86	5,097.11			181.26	17,455.23	13,704.31		3,750.92
Dubuque	*1,366.75	103,342.30			533.59	102,529.04	88,910.81		13,618.23
Emmet	3,062.13	19,483.30			48.64	22,534.07	15,796.41		6,737.66
Fayette	3,231.41	71,963.48		10,000.00	13,278.71	98,473.60	80,263.63		18,209.97
Floyd	9,809.62	42,118.60		247.87	919.58	53,095.67	41,417.50	10,000.00	1,678.17
Franklin	*10,522.56	18,015.70		3,331.88	30,382.80	31,207.82	23,459.60		7,748.22

SUMMARY TABLE NO. 20—Continued

County	Balance or Overdraft Jan. 1, 1928	Receipts During 1928				Total	Disburse- ments 1928	Transfers	Balance or Overdraft Jan. 1, 1928
		Tax Levy	Sale of Bonds	Refund from Primary Road Fund	Miscel- laneous				
Fremont	1,961.83	46,906.33		9,413.45	2,886.89	61,165.50	61,213.56		*48.06
Greene	9,478.44	50,978.28			904.15	61,360.87	48,025.28		13,335.59
Grundy	4,944.46	57,035.40			1,216.35	63,196.21	53,818.43		9,377.78
Guthrie	*13,809.22	56,710.49			8,701.31	51,002.58	58,118.85		*6,516.27
Hamilton	9,880.37	36,684.14			239.80	46,804.31	36,957.05		9,847.26
Hancock	4,586.30	21,801.29		662.00		27,049.59	21,988.88		5,060.71
Hardin	20,229.15	72,612.92			2,605.45	95,447.52	44,850.60	22,000.00	28,596.92
Harrison	1,611.84	65,383.25			19,839.68	86,834.77	83,499.56		3,335.21
Henry	*5,220.68	33,938.66			7,839.00	36,556.98	31,649.26		4,907.72
Howard	4,426.11	39,971.84			951.74	45,359.69	43,750.52		1,609.17
Humboldt	3,423.92	17,211.00			747.56	21,382.48	4,898.34		16,484.14
Ida	2,339.89	49,682.80			1,571.62	53,594.31	52,566.74		1,027.57
Iowa	15,454.21	59,708.13		5,727.61	3,213.88	84,103.83	66,890.95		17,212.88
Jackson	10,358.72	59,728.47			1,790.25	71,877.44	64,776.70		7,100.74
Jasper	2,414.78	96,175.42		19,944.70	11,134.23	129,669.13	122,477.76		7,191.37
Jefferson	6,005.69	44,175.45		9,674.20	3,055.13	62,910.47	43,588.61		19,321.86
Johnson	13,012.79	59,738.63			1,529.34	74,280.76	64,465.65		9,815.11
Jones	*237.24	59,595.67			869.33	60,227.76	50,399.28		9,828.48
Keokuk	1,889.42	45,880.78		13,716.78	2,295.06	63,782.04	63,053.20		728.84
Kossuth	32,349.13	8,465.10			2,024.60	42,838.83	32,624.69		10,214.14
Lee	1,411.71	56,506.44		3,885.58	601.52	62,405.25	62,256.20		149.05
Linn	*930.43	81,163.32		32,561.47	255.22	113,049.58	103,036.37		10,013.21
Louisa	*5,813.63	29,648.57			1,143.09	24,978.03	23,317.24		1,660.79
Lucas	302.45	36,073.63		10,936.47	2,049.90	49,362.45	40,694.85		8,667.60
Lyon	*456.02	47,290.96			206.87	47,038.81	32,600.13	15,000.00	*561.32
Madison	1,914.03	52,560.70			544.79	55,019.52	55,239.21		*219.69
Mahaska	16,102.68	49,294.21		11,117.97	1,699.92	78,214.78	65,468.14		12,746.64
Marion	5,416.54	43,294.17			1,399.09	50,109.80	40,874.35		9,235.45
Marshall	8,424.42	56,577.22			246.63	65,248.27	55,698.51	5,000.00	4,549.76
Mills	4,467.88	42,190.61			456.87	47,115.36	44,006.30	2,055.37	1,053.69
Mitchell	3,324.06	47,358.21			1,624.70	52,306.97	46,769.83		5,537.14
Monona	24,536.81	57,771.97			3,110.87	85,419.65	69,431.19		15,988.46
Monroe	1,551.09	19,581.43		13,431.94		34,564.46	33,281.03		1,283.43
Montgomery	23,622.54	49,239.65		24,053.29		96,915.48	52,614.41		44,301.07
Muscatine	9,188.88	32,996.24		24,282.60	1,206.61	67,674.33	25,155.39		42,518.94
O'Brien	21,456.82	39,502.56		1,495.69	3,045.39	65,500.46	45,852.49		19,647.97
Osceola	*1,980.87	36,078.48			682.81	34,780.42	19,540.56		15,239.86

Page	19,756.63	67,281.56		14,170.95	7,176.16	108,385.30	93,125.74		15,259.56
Palo Alto	4,528.26	36,778.82			319.21	41,626.29	44,025.69		*2,399.40
Plymouth	19,792.27	68,670.04			11,599.02	100,061.33	84,499.00		15,562.33
Pocahontas	5,426.81	29,432.43			941.83	35,801.07	26,379.02		9,422.05
Polk	*9,944.05	70,554.72	\$ 96,000.00	30,071.72	1,748.06	188,430.45	171,667.64		16,762.81
Pottawattamie	17,749.16	94,938.00		26,281.34	1,773.68	140,742.18	83,533.80		57,208.38
Poweshiek	12,071.19	69,774.18			1,104.36	82,949.73	48,051.00		34,898.73
Ringgold	2,542.91	38,906.72		6,419.73	192.99	48,062.35	47,695.46		306.89
Sac	48,873.24	40,697.35			1,355.66	90,926.25	57,636.62		33,289.63
Scott	*151.88	30,622.16		26,010.21	700.37	57,180.86	41,326.81		15,854.05
Shelby	27,624.29	85,733.22	22,181.73	21,727.17	2,104.41	159,370.82	113,310.98		46,059.84
Sioux	9,881.05	66,207.53	58,000.00		3,721.46	137,810.04	135,906.02		1,904.02
Story	7,969.09	45,844.74			79.50	53,883.93	48,807.66		5,076.27
Tama	*2,344.73	82,246.08	90,000.00	5,264.03	1,385.87	176,551.25	194,559.33		*18,008.08
Taylor	580.11	63,140.17		3,284.83	2,404.80	69,409.91	68,374.27		1,035.64
Union	52,451.61	23,320.15		15,873.66	809.31	92,454.73	30,208.01		62,246.72
Van Buren	1,177.75	35,000.00		2,443.16	8,649.28	47,270.19	45,581.19		1,689.00
Wapello	17.29	37,931.76		20,445.49	671.98	59,066.52	50,107.67		8,958.85
Warren	7,890.38	53,875.99			2,031.29	63,527.66	56,377.33		7,150.33
Washington	5,923.68	71,352.27		7,046.23	6,764.91	91,087.09	72,423.27		18,663.82
Wayne	4,546.05	43,121.85		7,191.06	2,327.72	57,187.58	47,573.97		9,613.61
Webster	4,312.57	51,034.94			881.43	56,228.94	18,966.11	40,000.00	*2,737.17
Winnebago	10,903.15	10,131.87			.43	21,035.45	25,365.58		*4,330.13
Winneblesh	2,898.56	63,124.66			402.91	66,426.13	62,956.00		3,470.13
Woodbury	13,923.01	81,754.88		33,640.01	2,417.95	131,735.85	91,061.83		40,674.02
Worth	2,481.31	25,450.16			196.18	26,127.48	26,127.48		2,003.17
Wright	10,475.23	25,495.67		3,133.30		39,104.20	28,258.24		10,845.96
Totals	\$793,369.93	\$4,855,259.48	\$266,181.73	\$533,967.18	\$288,708.62	\$6,660,346.59	\$5,452,276.67	\$126,402.23	\$ 1,119,669.58
Less overdrafts	77,140.35								87,992.89
Grand totals	\$716,229.58	\$4,855,259.48	\$266,181.73	\$533,967.18	\$288,708.62	\$6,660,346.59	\$5,452,276.67	\$126,402.23	\$ 1,081,667.09

*Indicates overdraft.

SUMMARY TABLE NO. 21
Financial Statement—County Road Fund—Annual Report of County Engineers.

County	Balance or Overdraft Jan. 1, 1928		RECEIPTS						Disbursements 1928	Transfers	Balance or Overdraft Jan. 1, 1929
	Tax Levy	Gasoline Tax	Sale of Bonds	Refunds from Townships	Refunds from Primary Road Funds	Special Assessments	Miscellaneous	Totals			
Adair	\$ 14,855.83	\$ 21,334.71	\$ 18,798.26				\$ 13,576.49	\$ 68,565.29	\$ 56,018.15		\$ 12,547.14
Adams	17,283.45	20,170.80	13,810.76				1,257.46	52,531.47	34,233.25		18,298.22
Allamakee	14,958.42	18,106.02	22,013.85		\$ 4,092.13		4,362.62	63,582.54	61,277.83		2,254.71
Appanoose	5,559.24	19,566.74	16,829.89		12,770.42		4,558.63	59,284.92	51,243.54		8,041.38
Audubon	2,402.89	19,321.74	14,533.39		8,111.98		7,786.45	52,156.45	45,406.60		6,749.85
Benton	129,227.39	45,458.54	23,358.43	\$ 60,115.22	18,869.40		2,236.32	279,265.30	259,206.71		20,058.59
Black Hawk	1,960.77	46,261.27	18,063.61		554.34	\$ 7,459.03	9,017.28	83,061.30	80,791.11		3,170.19
Boone	*3,990.99	30,272.54	18,962.30	\$ 22,845.33	1,698.90	43,340.20	19,348.91	132,407.19	122,454.39		9,952.80
Bremer	4,264.96	22,606.90	14,238.13		13,392.88		1,034.07	55,448.94	45,121.59		10,327.35
Buchanan	6,118.50	31,026.63	18,601.45		1,497.70		507.41	57,751.69	57,175.68		576.01
Buena Vista	*30,913.11	39,855.99	15,543.90	17,460.08	4,479.61	13,249.25	2,748.60	62,424.32	107,029.43		*44,005.11
Butler	541.50	28,081.61	18,929.47				16,136.25	63,745.83	57,872.51		5,873.32
Calhoun	25,821.63	40,199.63	18,734.46	3,874.28	22,908.83		64,249.05	175,787.88	140,064.50		35,723.38
Carroll	44,243.34	25,821.43	19,748.58	211.02	11,590.48		7,159.04	92,728.64	59,778.95		9,245.14
Cass	567.70	30,750.04	18,765.45	1,772.50	101.75		1,041.04	69,044.09	43,407.27	\$ 3,000.00	46,321.37
Cedar	85,010.65	9,478.44	18,962.28	8,992.76	3,299.01	13,297.05	14,943.85	329,247.87	269,824.81		59,423.06
Cerro Gordo	2,535.39	53,961.26	18,563.87	150.00			22,281.28	119,901.61	104,569.91		15,331.70
Cherokee	5,402.05	49,451.01	18,798.27				954.85	78,055.19	70,577.10		7,478.09
Chickasaw	1,337.69	18,977.55	16,506.70		3,299.01		7,996.81	65,316.14	64,072.59		1,243.55
Clarke	119.39	14,483.81	14,042.79	2,951.84	21,597.68		4,182.91	57,378.33	47,551.99		9,826.34
Clay	4,513.07	34,238.64	18,798.28	9,736.71	2,786.90	36,910.97	9,485.78	116,470.35	130,200.57		*13,780.22
Clayton	1,110.24	32,473.57	25,917.36	4,087.27	18,931.93		37,388.59	119,908.96	113,141.85		6,767.11
OClinton	*1,860.86	51,419.15	23,260.02	150.00	49,965.51		2,475.17	125,409.79	99,035.89		26,373.90
Crawford	18,245.84	42,972.76	23,456.81		6,723.36		3,533.13	94,931.90	80,690.39		14,331.51
Dallas	*63,715.56	30,381.27	19,421.58	11,311.26	19,576.33	21,897.10	88,499.49	127,371.47	145,519.14		*18,147.67
Davis	635.13	20,351.36	16,409.04	1,031.90			5,877.92	44,965.35	39,114.30		5,251.05
Decatur	4,630.43	21,672.99	17,485.99	730.96	4,150.41	189.90	4,081.72	52,752.50	38,688.60		14,063.90
Delaware	17,943.57	31,476.91	19,043.83		4,560.64		484.10	73,698.95	61,481.95		12,217.00
Des Moines	4,708.10	33,688.24	14,699.29				3,750.81	56,856.44	43,738.97		13,116.47
Dickinson	10,342.64	16,749.66	13,022.42				13,545.94	53,660.66	50,080.35		2,980.31
Dubuque	16,290.31	63,168.87	20,294.95		25,469.36		3,746.50	128,793.99	101,450.71		27,343.28
Emmet	7,247.28	16,721.45	13,086.41				26,436.11	64,086.55	55,071.66		8,413.89
Fayette	11,086.14	41,207.97	23,752.10		20,386.68		44,784.89	141,217.78	104,781.46	14,012.85	22,423.47
Floyd	2,351.43	29,766.32	16,239.34	11,451.29	25,891.32	31,533.45	4,965.93	122,139.68	105,187.52	5,000.00	11,951.56
Franklin	6,987.45	46,607.84	18,992.27		4,554.01	5,000.00	2,592.75	84,674.33	79		5,282.54

Fremont	1,882.40	12,551.07	17,125.13	24,879.79	50,898.39	40,192.25	10,646.14
Greene	4,001.75	42,602.10	18,896.69	13,027.14	78,327.68	74,490.39	4,037.29
Grundy	*468.36	32,616.05	16,436.17	60,837.75	100,440.63	100,376.23	20,064.70
Hamilton	1,812.85	33,426.82	19,588.62	10,017.34	88,700.63	84,996.38	3,764.25
Hamilton	27,754.10	34,927.68	18,699.78	4,140.77	118,417.35	113,401.93	5,015.42
Hancock	11,270.78	29,036.98	16,889.86	2,947.39	77,658.13	77,469.63	20,188.50
Hardin	3,445.06	41,493.09	18,028.58	80,876.55	151,560.75	139,375.61	12,185.14
Harrison	3,729.25	18,709.36	23,358.43	7,056.82	52,853.86	50,941.04	1,912.82
Henry	12,465.43	20,363.22	15,150.59		47,979.24	45,369.84	2,609.40
Howard	*16,549.61	17,143.92	15,333.56	48,056.18	93,211.56	81,448.52	11,763.04
Humboldt	17,486.50	26,097.55	12,885.43	5,190.02	66,307.74	66,307.74	17,226.27
Ida	15,250.41	27,830.81	14,106.94	11,016.50	85,922.51	82,296.80	2,925.77
Iowa	40,786.28	27,933.24	18,506.79	1,348.67	88,064.98	57,042.53	31,622.45
Jackson	71,891.02	24,774.25	21,291.58	686.19	119,180.31	42,875.50	76,304.75
Jasper	10,655.50	54,772.13	23,948.88	30,063.72	221,570.23	178,162.69	43,407.54
Jefferson	14,889.25	18,922.07	14,139.42	3,502.52	51,584.16	41,584.16	10,402.47
Johnson	21,647.63	44,152.73	20,142.83	41,101.11	279,221.47	237,244.80	41,976.67
Jones	1,821.79	25,540.98	18,962.29	2,520.07	52,097.61	78,849.41	*872.06
Kearney	747.97	27,528.49	18,066.91	1,665.92	68,766.11	68,766.11	53,177.23
Kearney	38,187.11	48,372.00	30,860.88	4,298.85	173,132.59	119,955.26	*782.06
Kearney	*1,069.22	35,896.92	17,879.68	4,069.27	60,148.78	60,931.44	11,640.02
Linn	3,183.13	87,782.12	22,871.16	5,338.70	187,569.75	175,569.75	906.30
Louisiana	11,208.91	16,410.01	13,588.72	17,138.02	58,406.56	58,100.26	7,426.95
Lucas	227.06	15,460.13	14,172.53	6,222.28	26,522.71	29,065.76	20,069.91
Lyon	3,454.22	28,396.63	19,063.54	15,774.67	75,202.02	55,192.11	*3,649.31
Madison	409.00	21,759.31	16,715.40	5,327.90	48,983.44	52,632.75	14,957.61
Madison	14,902.61	28,292.12	18,893.88	4,069.43	77,866.64	62,909.03	2,212.15
Marion	790.00	25,983.01	18,957.97	107.35	61,102.81	58,980.66	5,069.29
Marshall	*12,036.66	42,476.02	18,765.45	7,907.35	82,269.64	77,170.35	3,602.68
Mills	3,609.71	17,763.58	15,071.56	94.63	36,438.48	29,835.80	6,467.29
Mitchell	2,834.84	20,305.69	15,189.54	29,884.10	116,972.70	110,505.41	4,656.47
Monona	25,196.08	24,759.43	23,227.29	14,683.78	87,866.43	83,170.02	16,857.24
Monroe	9,096.51	13,433.87	14,203.04	3,387.30	47,465.50	30,698.20	13,791.70
Montgomery	9,788.07	21,102.69	13,910.96	6,742.48	58,219.85	44,428.15	74,232.80
Muscataine	67,911.07	34,614.95	14,513.76	4,566.88	231,978.34	157,745.64	25,771.76
O'Brien	12,838.68	29,502.66	18,697.05	28,900.31	130,624.39	110,252.63	15,409.88
Ossola	6,672.93	22,499.60	11,094.38	4,380.37	57,622.46	42,212.68	15,656.08
Page	5,707.54	28,835.07	17,439.39	9,465.26	76,145.20	60,489.12	15,656.08
Palo Alto	8,584.60	29,423.60	18,765.42	4,119.04	116,566.38	92,839.59	23,726.70
Plymouth	77,612.09	54,926.02	28,246.57	7,125.35	170,829.56	116,525.06	46,348.90
Pocahontas	5,873.86	32,732.73	19,057.92	4,690.72	82,856.83	83,393.19	*405.26
Polk	17.90	146,480.69	19,552.81	24,249.78	193,843.78	189,479.07	10,364.71
Pottaw'tt'mie	46,482.57	37,488.17	31,428.87	2,352.19	141,707.86	89,618.54	50,989.32
Poweshiek	18,869.48	39,980.20	19,057.97	8,406.91	195,150.56	188,500.88	7,965.57
Ringgold	*1,832.11	16,361.42	17,715.64	6,597.35	35,742.33	40,532.67	*2,190.24
Sac	17,730.73	40,697.23	18,806.70	1,716.72	96,039.61	72,767.68	23,272.03
Scott	*2,126.15	33,319.42	15,319.63	8,200.36	78,913.26	81,364.39	*2,451.13
Shelby	4,779.60	27,655.86	19,323.18	21,311.50	79,061.14	67,897.00	5,164.14
Stolux	6,749.47	39,734.44	24,923.15	64,727.51	167,883.90	134,147.61	22,735.59

SUMMARY TABLE NO. 21—Continued

County	Balance or Overdraft Jan. 1, 1928	RECEIPTS						Totals	Disbursements 1928	Transfers	Balance or Overdraft Jan. 1, 1929
		Tax Levy	Gasoline Tax	Sale of Bonds	Refunds from Townships	Refunds from Primary Road Funds	Special Assessments	Miscellaneous			
Story	6,998.08	45,844.76	18,594.30			10,286.76	13,530.11	4,200.00	87,260.24		12,193.67
Tama	*20,860.44	45,949.72	23,714.91	453,139.30	95.82	28,326.53		1,753.16	537,750.31		*5,640.31
Taylor	1,244.73	37,321.75	17,518.80		2,422.97	1,407.80		1,000.67	56,377.89		4,568.83
Union	42,172.88	16,620.83	14,048.51					507.43	29,400.78		43,818.87
Van Buren	1,125.43	15,000.00	15,848.42					780.08	31,804.22	2,000.00	949.71
Wapello	2,465.92	27,876.39	22,793.24				2,000.00		51,423.21		1,712.34
Warren	21,605.65	26,485.09	18,732.63		6,356.30	1,346.31		34,618.00	71,937.57		37,206.41
Washington	2,651.08	30,579.48	18,338.97			5,155.58		944.85	57,670.80		15,169.05
Wayne	1,585.99	16,621.02	17,190.74			7,191.96		428.32	43,018.03		4,464.49
Webster	3,346.73	55,405.90	23,719.25					98,461.03	180,632.01		*10,548.25
Winnebago	1,928.73	18,302.22	10,176.28						39,407.23		*3,797.49
Winnebago	11,881.55	36,075.71	22,505.43			7,238.05	1,544.08	932.25	80,220.67		5,787.90
Winnebago	53,624.92	120,709.01	28,804.30		364.39	11,292.64		7,592.04	210,821.17		46,652.57
Woodbury	11,878.39	20,362.38	13,089.89					1,250.88	53,357.93		4,880.55
Wright	18,179.08	38,252.05	18,062.29		2,907.00			304.66	66,280.91		12,924.17
Totals	\$1,313,700.95	\$3,308,923.38	\$1,836,897.79	\$1,162,703.01	\$276,584.08	\$753,475.43	\$300,363.65	\$1,301,858.54	\$10,108,083.76	\$84,968.42	\$1,445,141.92
Less overdraft	*155,423.07										
Grand totals	\$1,158,277.88	\$3,308,923.38	\$1,836,897.79	\$1,162,703.01	\$276,584.08	\$753,475.43	\$300,363.65	\$1,301,858.54	\$10,108,083.76	\$84,968.42	\$1,312,512.27

*Indicates overdraft.

SUMMARY TABLE NO. 22

Financial Statement—Township Road, Drag and Drainage Funds.
Annual Report of County Engineers.

County	Balance or Overdraft Jan. 1, 1928	Receipts 1928	Total	Disbursements 1928	Balance or Overdraft Jan. 1, 1929
Adair	\$ 13,484.22	\$ 40,796.34	\$ 54,279.56	\$ 41,740.93	\$ 12,538.63
Adams	8,055.60	32,964.24	41,019.84	32,255.50	8,764.34
Allamakee	4,065.98	58,005.59	62,071.57	56,771.31	5,300.26
Appanoose	4,607.47	46,563.14	51,170.61	42,599.58	8,571.03
Audubon	8,319.86	41,155.83	49,475.69	44,918.75	4,556.94
Benton	25,768.83	108,827.46	134,596.29	116,587.81	18,008.48
Black Hawk	12,704.37	75,791.33	88,495.70	77,632.53	10,863.17
Boone	14,335.25	108,699.18	123,034.43	104,392.08	18,642.35
Bremer	1,879.60	40,842.58	42,722.18	38,355.07	4,367.11
Buchanan	4,388.22	65,127.23	69,515.45	63,495.10	6,020.35
Buena Vista	33,225.01	79,936.12	113,161.13	78,865.77	34,295.36
Butler	4,212.05	73,402.27	77,614.32	74,980.21	2,634.11
Calhoun	52,234.00	108,447.88	160,681.88	124,509.08	36,172.80
Carroll	16,610.23	63,577.88	80,188.11	68,087.57	12,100.54
Cass	20,164.10	53,089.01	73,253.11	61,148.16	12,104.95
Cedar	19,685.18	59,612.24	79,297.42	64,772.05	14,525.37
Cerro Gordo	24,256.81	70,526.61	94,783.42	83,552.32	11,231.10
Cherokee	16,963.00	67,489.56	84,452.56	68,202.22	16,250.34
Chickasaw	5,923.47	60,307.69	66,231.16	62,087.34	4,143.82
Clarke	9,160.17	35,561.18	44,721.35	40,065.32	4,656.03
Clay	31,727.00	49,348.66	81,075.66	49,005.08	32,070.58
Clayton	12,108.70	34,361.67	46,470.37	39,524.45	6,945.92
Clinton	10,249.67	91,996.89	102,246.56	95,815.21	6,431.35
Crawford	29,681.50	73,156.22	102,837.72	81,412.60	21,425.12
Dallas	18,638.48	118,868.49	137,506.97	124,254.60	13,252.37
Davis	1,992.77	54,518.06	56,510.83	49,375.05	7,135.78
Decatur	2,335.10	23,447.19	25,782.29	23,911.27	1,871.02
Delaware	9,768.37	69,649.86	79,418.23	62,792.87	16,625.36
Des Moines	15,547.24	53,345.33	68,892.57	57,916.60	10,975.97
Dickinson	17,178.96	40,825.32	58,004.28	52,070.61	5,933.67
Dubuque	3,909.69	70,781.77	74,691.46	70,915.55	3,775.91
Emmet	16,393.40	54,308.38	70,701.78	55,329.93	15,371.85
Fayette	12,500.96	80,883.92	93,384.88	83,707.46	9,677.41
Floyd	8,144.94	67,151.82	75,296.76	67,710.34	7,586.42
Franklin	29,875.28	100,683.67	130,558.95	106,050.58	24,508.37
Fremont	23,260.71	65,550.27	88,810.98	69,936.71	18,874.27
Greene	27,764.41	94,436.44	122,200.85	94,867.35	27,333.50
Grundy	21,983.00	63,337.41	85,320.41	69,066.94	14,253.47
Guthrie	12,542.89	93,185.57	105,728.46	91,472.04	14,256.42
Hamilton	28,935.00	91,839.04	120,774.04	97,140.18	23,633.86
Hancock	21,671.85	81,412.23	103,084.08	86,024.92	16,959.16
Hardin	23,542.18	79,800.96	103,343.14	79,338.54	24,004.60
Harrison	19,048.59	75,612.75	94,661.34	77,187.57	17,473.77
Henry	8,321.88	32,872.96	41,194.84	32,744.60	8,450.24
Howard	11,039.54	40,600.44	51,639.98	39,465.54	12,174.44
Humboldt	23,866.06	76,832.03	100,698.09	70,581.62	29,816.47
Ida	15,815.70	54,928.23	70,743.93	55,576.76	15,167.17
Iowa	12,250.08	54,941.85	67,191.93	56,190.05	11,001.88
Jackson	12,310.24	61,235.51	73,545.75	67,265.50	6,280.25
Jasper	11,204.44	58,757.90	69,962.34	61,635.80	8,326.54
Jefferson	7,110.69	60,264.57	67,375.26	63,124.70	4,250.56
Johnson	12,058.92	52,757.93	64,816.85	53,384.94	11,431.91
Jones	5,646.58	50,154.41	55,800.99	50,330.25	5,470.74
Keokuk	7,191.24	68,366.11	75,557.35	68,497.46	7,059.89
Kossuth	10,933.48	67,509.16	78,442.64	69,805.44	8,637.20
Lee	13,847.39	65,531.35	79,378.74	65,792.99	13,585.75
Linn	8,973.78	139,339.34	148,313.12	131,487.65	16,825.47
Louis	12,432.03	45,375.67	57,807.70	40,679.12	17,128.58
Lucas	2,351.87	41,340.67	43,692.54	39,674.55	4,017.99
Lyon	37,522.60	53,145.45	90,668.05	73,720.82	16,947.23
Madison	8,449.88	70,209.71	78,659.59	70,381.64	8,277.95
Mahaska	16,526.92	81,465.03	97,991.95	86,970.85	11,021.10
Marion	17,814.97	74,891.07	92,706.04	78,876.80	13,829.24
Marshall	30,739.11	58,492.25	89,231.36	65,801.12	23,430.24
Mills	12,520.42	57,585.65	70,106.07	56,894.86	13,211.21
Mitchell	8,269.61	68,865.98	77,135.59	66,927.74	10,207.85
Monona	18,134.97	63,415.34	81,550.31	60,679.68	20,870.63
Monroe	5,097.09	26,018.26	31,115.35	26,907.04	4,208.31
Montgomery	9,688.80	45,548.73	55,237.53	47,103.58	8,133.95
Muscatine	18,205.31	58,759.43	76,964.74	66,030.18	10,934.56

SUMMARY TABLE NO. 22—Continued

County	Balance or Overdraft Jan. 1, 1928	Receipts 1928	Total	Disburse- ments 1928	Balance or Overdraft Jan. 1, 1929
O'Brien	57,640.91	80,125.52	137,766.43	99,547.75	38,218.68
Osceola	26,055.56	44,354.50	70,410.06	52,144.86	18,265.20
Page	17,884.32	56,230.18	74,114.50	50,415.97	23,698.53
Palo Alto	23,699.47	84,184.25	107,883.72	91,854.03	16,029.69
Plymouth	20,353.71	69,982.28	90,335.99	67,146.34	23,189.65
Pocahontas	37,839.42	99,948.76	137,788.18	107,209.54	30,578.64
Polk	18,385.84	64,048.29	82,434.13	70,418.49	12,015.64
Pottawattamie	17,711.78	51,060.20	68,771.98	52,149.29	16,622.69
Poweshiek	29,134.12	95,126.51	124,260.63	89,046.05	35,214.58
Ringgold	8,943.61	48,316.52	57,260.13	50,552.10	6,708.03
Sac	37,574.83	89,890.56	127,465.39	105,691.37	21,774.02
Scott	19,568.98	66,391.58	85,960.56	67,387.41	18,573.15
Shelby	15,632.89	86,100.93	101,733.82	87,747.02	13,986.80
Sioux	41,004.25	94,697.55	135,701.80	99,650.21	36,051.59
Story	22,852.38	108,000.64	130,853.02	115,068.87	15,784.15
Tama	27,468.20	105,218.32	132,686.52	112,583.14	20,103.38
Taylor	9,897.45	50,639.25	60,536.70	47,547.58	12,989.12
Union	6,841.94	22,697.31	29,539.25	21,372.78	8,166.47
Van Buren	8,496.50	48,675.34	57,171.84	49,886.32	7,285.52
Wapello	9,927.29	62,657.92	72,585.21	63,127.34	9,457.87
Warren	11,021.87	42,229.89	53,251.76	45,671.92	7,579.84
Washington	14,594.67	89,929.31	104,523.98	91,734.81	12,789.17
Wayne	4,399.11	42,959.78	47,358.89	42,988.68	4,370.21
Webster	36,316.67	116,770.37	153,087.04	119,632.35	33,454.69
Winnebago	11,188.05	65,089.32	76,277.37	74,099.42	2,177.95
Winneshiek	13,702.64	63,992.46	77,695.10	67,948.50	9,746.60
Woodbury	20,259.50	83,580.10	103,839.60	76,934.04	26,896.56
Worth	11,833.88	49,724.54	61,558.42	52,165.08	9,393.34
Wright	33,282.73	92,404.62	125,687.35	96,712.14	28,975.21
Totals	\$1,670,701.47	\$6,612,600.11	\$8,283,301.58	\$6,839,809.72	\$ 1,443,491.86

SUMMARY TABLE NO. 23
Bonded Indebtedness of Counties—Annual Report of County Engineers.

County	Bridge				County Road			
	Bonds Outstanding Jan. 1, 1928	Bonds Issued 1928	Bonds Paid 1928	Bonds Outstanding Jan. 1, 1929	Bonds Outstanding Jan. 1, 1928	Bonds Issued 1928	Bonds Paid 1928	Bonds Outstanding Jan. 1, 1929
Adair	52,229.48		3,000.00	49,229.48	\$ 23,270.52			\$ 23,270.52
Adams	74,000.00		3,000.00	71,000.00				
Allamakee	111,775.95		6,000.00	105,775.95	14,638.30		2,000.00	12,638.30
Appanoose								
Audubon	146,000.00		17,000.00	129,000.00				
Benton	211,000.00		17,000.00	194,000.00	209,400.00			209,400.00
Black Hawk	115,000.00		16,000.00	99,000.00				
Boone	190,000.00		4,000.00	186,000.00			10,000.00	281,700.00
Bremer	18,000.00		2,500.00	15,500.00				
Buchanan	17,000.00		3,000.00	14,000.00			3,000.00	14,000.00
Buena Vista	259,000.00		16,000.00	243,000.00	240,000.00		15,500.00	240,000.00
Butler	12,500.00		5,000.00	7,500.00				
Calhoun	45,000.00		3,000.00	42,000.00	245,000.00		2,000.00	243,000.00
Carroll	40,000.00			40,000.00				
Cass	170,000.00		2,000.00	168,000.00	52,000.00			52,000.00
Cedar					225,000.00			225,000.00
Cerro Gordo	54,000.00		11,000.00	43,000.00				
Cherokee	354,988.08		16,000.00	338,988.08	25,820.00		6,350.00	19,470.00
Chickasaw	147,500.00		13,000.00	134,500.00				72,011.92
Clarke	107,132.18		6,000.00	101,132.18	9,000.00			9,000.00
Clay	152,500.00		17,000.00	135,500.00	88,256.02		16,000.00	219,000.00
Clayton					245,000.00			
Clinton	87,000.00		10,000.00	77,000.00				
Crawford	494,000.00		40,000.00	454,000.00	26,000.00			26,000.00
Dallas	185,000.00		40,000.00	145,000.00	321,000.00		7,000.00	314,000.00
Davis	145,500.00		11,000.00	134,500.00	162,000.00			162,000.00
Decatur	151,800.00		10,000.00	141,800.00				
Delaware	71,600.00		18,000.00	53,600.00	35,500.00		2,000.00	33,500.00
Des Moines					25,400.00			25,400.00
Dickinson								
Dubuque	186,000.00		14,000.00	172,000.00				
Emmet					147,320.00		10,500.00	136,820.00
Fayette	99,000.00		26,000.00	73,000.00	40,000.00			40,000.00
Floyd								
Franklin					285,500.00		8,000.00	277,500.00

SUMMARY TABLE NO. 23—Continued

County	Bridge				County Road			
	Bonds Outstanding Jan. 1, 1928	Bonds Issued 1928	Bonds Paid 1928	Bonds Outstanding Jan. 1, 1929	Bonds Outstanding Jan. 1, 1928	Bonds Issued 1928	Bonds Paid 1928	Bonds Outstanding Jan. 1, 1929
Fremont	324,500.00		12,500.00	322,000.00				
Greene	364,000.00		14,000.00	350,000.00	16,000.00			16,000.00
Grundy	364,000.00		15,000.00	349,000.00				
Guthrie	183,916.91		2,000.00	181,916.91	52,083.09			52,083.09
Hamilton	15,000.00			15,000.00	221,000.00		95,000.00	126,000.00
Hancock								
Hardin	133,858.25		15,000.00	178,858.25	147,140.47		14,000.00	133,140.47
Harrison	118,000.00		17,000.00	101,000.00	25,000.00			25,000.00
Henry								
Howard	5,800.00		4,000.00	1,800.00	20,700.00		4,000.00	16,700.00
Humboldt	46,000.00			46,000.00	82,495.44			82,495.44
Ida	141,000.00		15,000.00	126,000.00	27,000.00			27,000.00
Iowa	12,607.85		5,000.00	7,607.85	56,785.00		5,000.00	51,785.00
Jackson	135,000.00		7,000.00	128,000.00				
Jasper	305,000.00		12,000.00	293,000.00	173,000.00	100,000.00	11,000.00	262,000.00
Jefferson	52,151.91		5,000.00	47,151.91	30,468.00		5,000.00	25,468.00
Johnson	78,931.39		10,000.00	68,931.39	247,000.00	130,000.00	6,000.00	371,000.00
Jones	41,445.00			41,445.00	11,555.00			11,555.00
Keokuk								
Kossuth	98,500.00		14,000.00	84,500.00	358,000.00		7,000.00	351,000.00
Lee	18,498.86		4,000.00	14,498.86				
Linn	85,000.00			85,000.00	142,000.00		25,000.00	117,000.00
Louisa	44,121.44		3,000.00	41,121.44				
Lucas	195,000.00		5,000.00	190,000.00	65,000.00		5,000.00	60,000.00
Lyon	74,322.14		5,100.00	69,222.14	15,543.02		900.00	14,643.02
Madison	48,558.41		2,883.00	45,675.41	36,403.33		1,117.00	35,286.33
Mahaska	105,421.64		4,750.00	100,671.64	36,959.19		1,250.00	35,709.19
Marion	280,000.00		5,000.00	275,000.00	50,000.00		5,000.00	45,000.00
Marshall	485,000.00		20,000.00	465,000.00	295,000.00			295,000.00
Mills	219,225.00		13,000.00	206,225.00	165,464.52		12,000.00	153,464.52
Mitchell	192,316.00		78,500.00	113,816.00	43,714.00			43,714.00
Monona	9,000.00		3,000.00	6,000.00	9,000.00		3,000.00	6,000.00
Monroe	17,000.00		10,000.00	7,000.00	133,000.00			133,000.00
Montgomery	301,385.00		11,250.00	290,135.00	88,615.00		3,750.00	84,865.00
Muscatine	23,000.00		3,000.00	20,000.00	121,000.00	100,000.00	6,000.00	215,000.00
O'Brien	82,000.00		10,000.00	72,000.00	16,000.00		2,000.00	14,000.00
Osceola	192,500.00		3,500.00	189,000.00				

Page	340,180.00			340,180.00	143,950.00			143,950.00
Palo Alto	134,500.00		7,000.00	127,500.00	193,000.00		8,500.00	184,500.00
Plymouth								
Pocahontas	8,000.00			80,000.00	342,000.00		16,000.00	326,000.00
Polk	467,000.00	\$ 96,000.00	40,000.00	523,000.00				
Pottawattamie	510,850.00		46,000.00	464,850.00	44,000.00		8,500.00	35,500.00
Poweshiek	153,000.00		30,000.00	123,000.00	31,500.00	100,000.00		131,500.00
Ringgold	85,800.00		3,400.00	82,400.00	37,100.00		600.00	36,500.00
Sac	119,700.00		7,000.00	112,700.00	53,300.00		5,000.00	48,300.00
Scott	410,000.00		18,000.00	392,000.00	20,600.00			20,600.00
Shelby	239,000.00	22,000.00	14,000.00	247,000.00				
Sioux	60,000.00	58,000.00	20,000.00	98,000.00		60,000.00		60,000.00
Story	30,000.00			30,000.00	257,000.00		20,000.00	237,000.00
Tama	188,500.00	90,000.00	15,000.00	263,500.00	20,000.00	460,000.00		480,000.00
Taylor	21,968.60		5,009.70	16,968.90	42,550.26		2,900.30	39,559.96
Union	98,000.00		9,000.00	89,000.00	5,000.00			5,000.00
Van Buren								
Wapello	247,500.00			247,500.00				
Warren								
Washington	77,000.00		4,000.00	73,000.00	6,000.00		2,000.00	4,000.00
Wayne	29,000.00		10,000.00	19,000.00				
Webster					66,000.00			66,000.00
Winnebago					158,700.00			158,700.00
Winneshiek								
Woodbury	78,000.00		20,000.00	58,000.00	60,000.00			60,000.00
Worth								
Wright	77,000.00		11,000.00	66,000.00	376,000.00		12,500.00	363,500.00
Totals	\$12,007,697.69	\$ 266,000.00	\$ 879,292.70	\$11,394,314.99	\$ 7,239,923.08	\$ 1,219,000.00	\$ 370,457.30	\$ 8,088,465.78

SUMMARY TABLE NO. 24
Total Indebtedness of Counties for County Roads and Bridges January 1, 1929. Annual Report of County Engineers.

County	Bridges				Roads				Total County Road and Bridge Indebtedness		
	Outstand- ing Bills	Warrants Issued and Stamped	Warrants Outstand- ing Not Stamped	Bonds Outstanding	Total	Outstand- ing Bills	Warrants Issued and Stamped	Warrants Outstand- ing Not Stamped		Bonds Outstanding	Total
Adair			\$ 9.00	\$ 49,229.45	\$ 49,238.45			\$ 140.25	\$ 23,970.52	\$ 23,410.77	\$ 72,649.95
Adams				71,000.00	71,000.00						71,000.00
Allamakee				105,775.95	105,775.95				12,638.30	12,638.30	118,414.25
Appanoose			295.69		295.69			2,302.29		2,302.29	2,597.98
Audubon			197.15	129,000.00	129,197.15						130,615.24
Benton			721.24	194,000.00	194,721.24			1,418.09		1,418.09	197,732.31
Black Hawk	\$ 8,031.55			99,000.00	107,031.55			8,221.29	269,400.00	277,621.29	472,342.53
Boone	210.00		137.43	186,000.00	186,347.43	\$ 700.76				700.76	187,732.31
Bremer				15,533.00	15,503.00	7,858.67		2,631.99	281,700.00	292,100.66	478,588.09
Buchanan				14,000.00	14,000.00				14,000.00	14,000.00	15,593.60
Buena Vista				243,000.00	243,000.00				240,000.00	240,000.00	28,000.00
Butler			1,005.40	7,500.00	8,505.40			739.27		739.27	483,000.00
Calhoun				42,000.00	42,000.00				243,000.00	243,000.00	255,000.00
Carroll				40,000.00	40,000.00						9,244.67
Cass				168,000.00	168,000.00						255,000.00
Cedar				43,000.00	43,350.91			391.91	52,000.00	52,391.91	40,000.00
Cerro Gordo	350.91			338,988.08	339,339.01	1,998.39			325,000.00	325,000.00	325,000.00
Cherokee		184.17		339,172.25	339,356.42	2,600.00		355.26	19,470.00	21,468.39	64,819.30
Chickasaw				134,500.00	134,500.00				72,011.22	74,967.18	414,139.43
Clarke				101,132.18	101,132.18				9,000.00	9,000.00	143,500.00
Clay			353.51	135,500.00	135,853.51				88,236.02	88,236.02	189,368.20
Clayton							\$32,663.60		219,000.00	251,663.60	387,517.11
Clinton	608.00		12,750.38	77,000.00	90,408.38	9,000.00		3,935.07	26,000.00	38,935.07	129,383.45
Crawford	2,000.00		5,449.24	454,000.00	461,449.24	1,000.00		1,974.34	314,000.00	316,974.34	778,423.58
Dallas			180.76	185,000.00	185,180.76			966.83	162,000.00	162,966.83	348,153.59
Davis				134,500.00	134,500.00						134,500.00
Decatur			491.10	141,800.00	142,291.10			235.67	35,500.00	35,735.67	178,026.77
Delaware	201.50		9.00	53,000.00	53,810.50	605.50		319.35	23,400.00	24,414.85	78,925.85
Des Moines											
Dickinson			2,592.54	172,000.00	174,592.54			1,164.06		1,164.06	175,756.60
Dubuque				73,000.00	73,000.00	116.87			136,820.00	136,936.87	136,936.87
Emmet	90.75		1,378.60		1,469.35	12,055.10		1,768.29	40,000.00	53,823.29	128,987.74
Fayette			300.64		300.64			3,923.03		3,923.03	4,233.67
Floyd									277,500.00	277,500.00	277,500.00
Franklin											

Fremont	50.00			322,000.00	322,050.00	200.00	7,371.97		16,000.00	23,371.97	322,250.00
Greene				350,000.00	350,000.00	1,013.84	803.52			1,817.36	351,817.36
Grundy	407.28			349,407.28	349,407.28				52,083.09	52,083.09	351,224.64
Guthrie			2,674.05	181,916.91	184,590.96			119.99	196,000.00	196,119.99	236,675.04
Hamilton	100.00			15,000.00	15,100.00	200.00			133,140.47	133,340.47	143,794.04
Hancock									25,000.00	25,000.00	25,000.00
Hardin				178,838.25	178,838.25						178,838.25
Harrison				101,000.00	101,000.00						101,000.00
Henry	188.05		92.04			741.43		165.23	16,700.00	16,885.84	16,885.84
Howard			43.90	1,800.00	1,843.90	45,000.00		85.84	82,436.44	82,522.28	133,250.04
Humboldt	913.93			46,000.00	46,913.93	3,840.67			27,000.00	27,136.40	133,436.93
Ia			500.53	126,500.00	127,000.53			136.40	51,785.00	51,921.40	127,921.93
Iowa				7,607.85	7,607.85						7,607.85
Jackson				128,000.00	128,000.00						128,000.00
Jasper	500.00			293,000.00	293,500.00	500.00		8,500.00	292,000.00	292,500.00	293,500.00
Jefferson			2,500.00								
Johnson	1,300.00		940.95	47,151.91	49,392.86				25,468.00	25,468.00	47,392.86
Jones	1,305.53			68,931.39	70,236.92	1,800.00			371,000.00	372,800.00	442,931.39
Keokuk	6,000.00			41,445.00	47,445.00	2,800.47			11,555.00	14,355.47	57,100.00
Kossuth	600.00		28.97			5,000.00		113.93		5,113.93	11,142.90
Lee				84,500.00	84,500.00	7,800.00			351,000.00	358,800.00	443,300.00
Linn			752.57	14,498.86	15,251.43			1,203.72		1,203.72	16,455.15
Louis			682.05	85,000.00	85,682.05			2,678.37	117,000.00	119,678.37	205,360.42
Lucas			684.58	190,000.00	190,684.58						190,684.58
Lyon			34.03	69,256.17	69,290.20	200.00		816.14	60,000.00	60,816.14	120,106.34
Madison	683.85			45,675.41	46,359.26			743.50	14,643.02	15,392.52	84,842.69
Marion	1,000.00		2,181.50	100,671.64	103,853.14	1,451.10		196.82	35,286.33	36,737.13	140,590.27
Marshall				275,000.00	275,000.00	1,000.00			45,000.00	46,000.00	281,000.00
Mills			69.60	465,000.00	465,069.60				295,000.00	295,139.60	760,209.20
Mitchell	42,500.00		1,045.64	206,225.00	208,770.64			1,267.38	153,464.52	154,731.90	363,502.54
Monona				113,816.00	113,816.00				43,714.00	43,714.00	157,530.00
Monroe				6,000.00	6,000.00						6,000.00
Montgomery			350.88	7,000.00	7,350.88				133,000.00	133,000.00	140,350.88
Muscatine			77.60	290,212.60	290,290.20			621.46	84,865.00	85,486.46	275,699.00
O'Brien	100.00			20,000.00	20,100.00				215,000.00	215,100.00	235,200.00
O'Brien	2,500.00			72,000.00	74,500.00	3,400.00		11.42	14,000.00	17,411.42	91,911.42
Osceola				189,000.00	189,000.00						189,000.00
Page			1,894.00	127,500.00	129,394.00				143,950.00	143,950.00	273,344.00
Palo Alto	3,032.00					5,160.00		36.00	184,500.00	184,536.00	187,568.00
Plymouth	325.00			80,000.00	80,325.00	3,605.47			336,000.00	339,605.47	419,930.47
Pocahontas	1,000.00		250.00	223,000.00	224,250.00	1,000.00		500.00	225,900.00	226,900.00	451,150.00
Polk				464,850.00	464,850.00			5,151.91		5,151.91	469,999.91
Pottawattamie				123,000.00	123,000.00				35,500.00	35,500.00	158,500.00
Poweshiek				123,000.00	123,000.00				131,500.00	131,500.00	254,500.00
Ringgold				82,400.00	82,400.00				26,500.00	26,500.00	108,900.00
Sac				112,700.00	112,700.00				46,900.00	46,900.00	159,600.00
Scott			31.62	392,000.00	392,031.62			255.35	20,600.00	20,855.35	412,886.97
Shelby				247,000.00	247,000.00						247,000.00
Sioux			11,970.10					261.90	60,000.00	60,261.90	72,231.90

SUMMARY TABLE NO. 24—Continued

County	Bridges					Roads				Total County Road and Bridge Indebtedness
	Outstand- ing Bills	Warrants Issued and Stamped	Warrants Outstand- ing Not Stamped	Bonds Outstanding	Total	Outstand- ing Bills	Warrants Issued and Stamped	Warrants Outstand- ing Not Stamped	Bonds Outstanding		Total
Story	1,200.00			30,000.00	31,200.00	2,000.00			237,000.00	239,000.00
Tama		806.02		263,500.00	264,306.02		219.64		480,000.00	480,219.64
Taylor				16,988.90	16,988.90				39,559.96	56,548.86
Union				89,000.00	89,000.00				5,000.00	5,000.00
Van Buren										
Wapello				247,500.00	247,500.00					
Warren	400.00			73,000.00	73,400.00	1,875.00				1,875.00
Washington				19,000.00	19,000.00				4,000.00	4,000.00
Wayne										
Webster									66,000.00	66,000.00
Winnebago									158,700.00	158,700.00
Winneshiek			2,488.42		2,488.42			188.75		188.75
Woodbury	2,500.00		1,010.07	58,000.00	61,510.07	25,000.00		4,068.48	60,000.00	89,068.48
Worth			3.40		3.40	8,000.00		467.80		8,467.80
Wright				66,000.00	66,000.00				363,500.00	363,500.00
Totals	\$79,224.15	\$15,451.10	\$45,582.75	\$11,394,314.99	\$11,534,573.05	\$170,592.19	\$55,066.93	\$59,363.35	\$8,088,465.78	\$8,374,388.25
										\$ 19,908,961.30

SUMMARY TABLE NO. 25
Classification of Township Road Work—Annual Report of County Engineers.

County	No. of Twp. in County	No. of Twp. Report- ing	Construction	Maintenance	Special Cases (Railroad Crossings)	Total
Adair	18	12		\$ 41,740.93		\$ 41,740.93
Adams	12	8		43,119.12		43,119.12
Allamakee	18	18		56,771.31		56,771.31
Appanoose	17	13	\$ 8,798.00	36,311.32		45,109.32
Audubon	12	9	3,746.45	41,172.30		44,918.75
Benton	20	19		116,587.81		116,587.81
Black Hawk	18	17	18,559.62	59,072.91		77,632.53
Boone	17	15	100,315.36	41,504.67		141,819.03
Bremer	14	8	12,065.53	26,292.03		38,357.56
Buchanan	16	14	62,555.37	65,072.37	\$ 941.73	128,569.47
Buena Vista	17	14	82,584.49	24,517.78		107,102.27
Butler	16	16	9,907.88	65,072.37		74,980.25
Calhoun	16	16	155,838.61	24,264.31		180,102.92
Carroll	16	13	30,952.84	34,317.18	2,204.75	67,474.77
Cass	16	13	1,624.78	59,513.38		61,138.16
Cedar	17	12		64,772.05		64,772.05
Cerro Gordo	16	13	15,324.85	73,785.34		89,110.19
Cherokee	16	14	6,404.78	61,732.79	64.65	68,202.22
Chickasaw	12	12	17,232.24	44,855.10		62,087.34
Clarke	12	10		44,248.07		44,248.07
Clay	16	8	33,039.03	17,069.18		50,108.21
Clayton	22	9		47,458.34		47,458.34
Clinton	20	18	16,691.77	74,050.69	5,072.75	95,815.21
Crawford	20	14		81,412.60		81,412.60
Dallas	16	16	90,006.91	57,084.99		147,091.90
Davis	15	15		49,375.05		49,375.05
Decatur	16	8		26,005.47		26,005.47
Delaware	16	14		62,792.87		62,792.87
Des Moines	13	13	10,501.69	53,390.18		63,891.87
Dickinson	12	9	37,333.06	14,470.38		51,803.44
Dubuque	17	13		70,915.55		70,915.55
Emmet	12	11	49,504.00	46,253.25		95,757.25
Fayette	20	18		85,770.06		85,770.06
Floyd	12	11	39,086.00	41,424.30		80,510.30
Franklin	16	15	44,333.14	68,644.58		112,977.72
Fremont	13	13	3,767.32	67,078.10		70,845.42
Greene	15	14	60,553.98	63,553.99		124,107.97
Grundy	14	13	17,025.61	52,881.33		69,906.94
Guthrie	17	17	27,950.16	70,293.54	6,846.59	105,090.29
Hamilton	16	16		38,023.66		38,023.66
Hancock	16	14	45,116.87	40,908.05		86,024.92
Hardin	15	14	5,636.81	73,701.73		79,338.54
Harrison	20	17	2,164.39	75,023.18		77,187.57
Henry	12	8		32,344.60		32,344.60
Howard	12	10	12,322.08	27,143.46		39,465.54
Humboldt	12	12	29,386.53	43,615.29		73,001.82
Ida	12	12	4,880.86	52,073.47		56,954.33
Iowa	16	12		56,190.06		56,190.06
Jackson	18	15	3,160.08	64,105.42		67,265.50
Jasper	19	10	9,177.25	51,981.31	477.24	61,635.80
Jefferson	12	12		63,067.35		63,067.35
Johnson	21	11	10,274.89	44,914.63		55,189.52
Jones	16	10	12,894.48	37,435.75		50,330.23
Keokuk	17	15		75,403.00		75,403.00
Kossuth	28	14	48,234.21	66,402.27		114,636.48
Lee	15	15		57,458.40		57,458.40
Linn	20	20	71,272.41	90,244.00		161,516.41
Louis	12	9		40,579.12		40,579.12
Lucas	12	10		47,047.64		47,047.64
Lyon	18	17	11,086.72	42,634.10		53,720.82
Madison	16	16		75,276.48		75,276.48
Mahaska	18	18	14,209.05	68,372.30	4,339.50	86,920.85
Marion	15	11		102,427.24		102,427.24
Marshall	13	13	23,123.96	37,677.16		60,801.12
Mills	13	13	1,359.25	56,062.75		57,422.00
Mitchell	16	16		68,889.52		68,889.52
Monona	19	16	3,302.79	54,671.67	2,705.22	60,679.68
Monroe	12	7	800.00	25,785.04	322.00	26,907.04
Montgomery	12	12	8,124.95	49,846.61		57,971.56

SUMMARY TABLE NO. 25—Continued

County	No. of Twps. in County	No. of Twps. Reporting	Construction	Maintenance	Special Cases (Railroad Crossings)	Total
Muscatine	14	14	22,316.42	41,172.22	3,095.87	66,584.51
O'Brien	16	16	67,409.86	48,150.85		115,560.71
Osceola	12	12	12,299.94	39,845.01		52,144.95
Page	16	12		50,415.97		50,415.97
Palo Alto	16	15	65,374.36	35,240.38	1,208.41	101,823.15
Plymouth	24	15	4,706.31	62,440.03		67,146.34
Pocahontas	18	17	63,078.93	41,445.51		104,524.44
Polk	19	11	19,054.75	51,363.74		70,418.49
Pottawattamie	29	13		75,669.91		75,669.91
Poweshiek	16	15	11,017.33	78,028.72		89,046.05
Ringgold	17	11	188.00	59,406.36	260.00	59,854.36
Sac	16	16	46,432.42	57,493.39		103,925.81
Scott	15	15		67,322.90	64.50	67,387.40
Shelby	16	16		72,330.00	15,417.02	87,747.02
Sioux	23	22	14,227.56	85,422.65		99,650.21
Story	16	16	58,705.90	56,162.97		114,868.87
Tama	21	19	14,713.66	104,770.73		119,484.39
Taylor	17	14		47,547.58		47,547.58
Union	12	6		31,875.10		31,875.10
Van Buren	14	14		49,890.32		49,890.32
Wapello	14	14		63,127.34		63,127.34
Warren	16	10		45,671.92		45,671.92
Washington	15	14	6,286.37	85,448.44		91,734.81
Wayne	16	13	103.01	42,548.35		42,651.36
Webster	23	21	117,158.98	19,286.97		136,445.95
Winnebago	12	12		80,756.90		80,756.90
Winneshiek	20	15		82,628.47		82,628.47
Woodbury	23	18	7,992.34	64,760.33	4,181.37	76,934.04
Worth	12	11	23,550.00	25,134.60	4,507.28	53,191.88
Wright	16	15	44,486.24	35,165.52	28,232.35	107,884.11
Total reported	1,610	1,343	\$1,902,176.97	\$5,432,647.02	\$ 79,901.23	\$ 7,414,815.22
Not reported—estimated		267	378,169.21	1,080,057.15	15,902.95	1,474,129.31
Grand totals	1,610	1,610	\$2,280,346.18	\$6,512,704.17	\$ 95,804.18	\$ 8,888,944.53

SUMMARY TABLE NO. 26

Progress Condition Report—Township Roads—Annual Report of County Engineers.

County	Construction Completed 1925		Condition of Township Road System January 1, 1929			
	Built to Permanent Grade	Gravel Macadam or Sand Clay	Not Built	Permanent Grade Not Surfaced	Gravel, Macadam or Sand Clay	Total Miles in Township System
Adair			906.25			906.25
Adams			661.40			661.40
Allamakee			857.00			857.00
Appanoose		8.00	745.00			745.00
Audubon			864.00			864.00
Benton			1,095.00			1,095.00
Black Hawk		23.75	723.36		65.25	788.61
Boone	54.00	62.75	557.85	15.25	296.75	809.85
Bremer		12.50	609.50		68.50	678.00
Buchanan			613.75		235.50	849.25
Buena Vista		62.00	607.00		291.00	898.00
Butler			874.13			874.13
Calhoun	72.00	87.00	482.00	75.00	272.00	829.00
Carroll	60.00	50.00	601.00	65.00	154.00	880.00
Cass	.25		901.00	.75		901.75
Cedar			863.80			863.80
Cerro Gordo	6.00	6.00	861.00	6.00	36.00	903.00
Cherokee	4.00	1.00	860.50	8.50	2.00	871.00
Chickasaw	12.00	12.00	774.00	8.50	24.50	807.00
Clarke			730.00			730.00
Clay	50.00	55.00	590.20	6.00	273.80	870.00
Clayton			1,012.50			1,012.50
Clinton			944.00			944.00
Crawford			1,270.00			1,270.00
Dallas	40.70	35.17	519.72	5.53	280.38	805.63
Davis			786.25			786.25
Decatur			760.00			760.00
Delaware			766.50		6.50	800.00
Des Moines			675.00			675.00
Dickinson	59.00	50.00	536.50	9.00	74.50	640.00
Dubuque			813.95			813.95
Emmet	17.50	27.25	445.00	8.00	145.25	598.25
Fayette		18.75	828.45		219.95	1,048.40
Floyd	17.00	27.00	681.75	19.50	66.50	767.75
Franklin	34.25	17.25	896.50	24.75	81.75	1,000.00
Fremont			735.75			735.75
Greene		25.00	731.00		285.00	1,016.00
Grundy		18.00	712.25		26.50	738.75
Guthrie	5.53	5.25	899.47	.28	5.25	905.00
Hamilton	27.50	49.75	676.95	6.00	127.50	810.45
Hancock	48.00	41.00	790.00	7.00	61.00	858.00
Hardin			863.15		9.00	872.15
Harrison			1,074.00			1,074.00
Henry			667.00			667.00
Howard		19.50	617.00		49.50	666.50
Humboldt	21.75	4.75	426.25	22.65	95.00	554.50
Ida			763.00	1.00	5.00	769.00
Iowa			900.00			900.00
Jackson			887.00			887.00
Jasper		2.00	1,123.00		9.00	1,132.00
Jefferson			932.00			932.00
Johnson			919.75			919.75
Jones			795.00			795.00
Keokuk			919.75			919.75
Kossuth	42.00	127.00	1,159.00	42.00	301.00	1,502.00
Lee			645.25			645.25
Linn	41.50	31.00	995.50	24.20	100.50	1,120.20
Louisa			543.06			543.06
Lucas			646.00			646.00
Lyons	10.00	7.00	871.00	6.00	11.00	888.00
Madison			861.00			861.00
Mahaska		51.00	863.75		69.25	933.00
Marion			790.00			790.00
Marshall	8.50	6.70	784.50	2.00	59.50	846.00
Mills			633.50			633.50
Mitchell			654.50		1.50	656.00

SUMMARY TABLE NO. 26—Continued

County	Construction Completed 1928		Condition of Township Road System January 1, 1929			
	Built to Permanent Grade	Gravel Macadam or Sand Clay	Not Built	Permanent Grade Not Surfaced	Gravel, Macadam or Sand Clay	Total Miles in Township System
Monona	3.90		840.85	3.90		844.75
Monroe		10.00	548.25		10.00	558.25
Montgomery			685.38			685.38
Muscatine	8.60	23.50	538.89	5.60	47.68	592.17
O'Brien	18.75	33.75	862.12		57.88	920.00
Osceola			645.40			645.40
Page	1.00		828.00	1.00		829.00
Palo Alto	34.25	35.25	660.50		109.50	770.00
Plymouth			1,338.50	2.00		1,340.50
Pocahontas	3.00	36.00	682.50		218.00	900.50
Polk			900.00			900.00
Pottawattamie			1,440.50			1,440.50
Poweshiek	8.00	8.00	918.00		8.00	926.00
Ringgold			892.00			892.00
Sac	21.70	30.50	811.50	6.50	112.50	930.50
Scott			590.40		5.00	595.40
Shelby			899.00			899.00
Sioux	8.00		1,192.50	15.50	4.00	1,212.00
Story		40.75	645.00		192.00	837.00
Tama	4.50	1.50	988.90	3.00	1.50	993.40
Taylor			900.00			900.00
Union			665.25			665.25
Van Buren			728.16			728.16
Wapello			664.00			664.00
Warren			1,004.00			1,004.00
Washington			877.00			877.00
Wayne			740.00			740.00
Webster	2.50	60.75	682.13	2.50	236.00	920.63
Winnebago	1.00		614.00	1.00		615.00
Winneshiek			920.57			920.57
Woodbury			1,232.50			1,232.50
Worth		24.00	504.36		89.50	593.86
Wright	38.25	17.50	549.75	58.00	194.25	802.00
Totals	784.93	1,203.87	78,677.75	471.91	5,096.04	84,245.70

SUMMARY TABLE NO. 27—PART I
Inventory of Equipment and Machinery Showing Estimated Value January 1, 1929—Owned by the County—Annual Report of County Engineers.

County	Tractors Estimated		Trucks Estimated		Automobiles Estimated		Snow Plows Estimated		Concrete Mixers Estimated		Heavy Graders Estimated		Patrol Graders Estimated		Planers Estimated		Maintainers Estimated	
	No.	Value	No.	Value	No.	Value	No.	Value	No.	Value	No.	Value	No.	Value	No.	Value	No.	Value
Adair	4	\$ 10,100	3	\$ 1,200							4	\$ 2,500					1	\$ 250
Adams	2	4,500	2	1,750					1	\$ 400	28	3,200					7	25
Allamore	3	6,625							2	630	2	300	20	\$ 1,200				
Appanose	2	7,300	3	2,200							18	4,350						
Audubon	1	1,000									3	2,416	7	1,200			20	3,130
Benton	2	4,000	2	148	7	\$ 575					20	3,125					1	1,235
Black Hawk	3	5,120	6	1,170							8	300	5	400			8	50
Boone	5	1,475	2	1,625	1	15			1	150	10	910	5	100			5	315
Bremer	2	4,000	3	2,350	1	200			1	300	2	1,350	10	1,100			2	290
Buchanan	1	2,000	4	1,450							2	400	18	800			12	725
Buena Vista	1	600	7	2,400	1	300			1	400	10	575						
Butler	3	4,300	1	600	2	200			4	1,100	6	1,400	24	1,400				
Calhoun			4	3,600								7	1,000					
Carroll	2	3,800									1	100	6	1,325			12	335
Cass	3	4,780	2	675							16	2,774	11	1,490			3	64
Cedar	1	500	6	4,950	1	125			3	700	9	1,000	4	463			5	1,025
Cerro Gordo	3	3,350	1	800					1	75	4	725	9	500			3	475
Cherokee	1	3,200	3	2,875							2	1,700	17	2,300			2	600
Chickasaw	2	4,800							1	150	6	350	18	1,355			2	305
Clarke			5	300	1	444			1	40	3	3,500	20	1,300				
Clay	4	7,400	1	1,500	2	1,500					2	1,400	20	1,900				
Clayton	1	2,000	3	400					1	400	3	1,600	1	1,500	10	\$ 400	8	1,200
Clinton	3	8,500	1	400							5	1,100						
Crawford	2	5,000	7	4,800	1	325			1	250	6	1,600						
Dallas	2	7,500	2	1,400	1	250			3	950	2	500	21	1,600				
Davis	2	1,750	3	3,300					1	200	2	300	17	700			1	50
Decatur	1	1,000			1	300			2	700	1	575	6	575			2	200
Delaware	1	1,300									2	1,065						
Des Moines	4	1,300			5	1,075			1	60	3	610	4	300			4	5,005
Dickinson	2	1,500			1	125			3	250	2	1,800	11	800	1	40	2	1,000
Dubuque	2	2,400	4	4,200					2	850	2	175	10	775				
Emmet											13	2,400						
Fayette	3	8,700	8	3,945	2	2,040			2									
Floyd	2	6,082	5	150	2	3,875			2									
Franklin	2	850	5	200	3	1,200												

SUMMARY TABLE NO. 27—PART I—Continued

County	Tractors Estimated		Trucks Estimated		Automobiles Estimated		Snow Plows Estimated		Concrete Mixers Estimated		Heavy Graders Estimated		Patrol Graders Estimated		Planers Estimated		Maintainers Estimated	
	No.	Value	No.	Value	No.	Value	No.	Value	No.	Value	No.	Value	No.	Value	No.	Value	No.	Value
Fremont	1	4,000	3	1,500					2	150	7	925					8	1,125
Greene	2	4,600	1	100							4	1,050			1	10	1	235
Grundy	1	8,000	1	600							3	2,000					1	250
Guthrie	1	3,500	4	2,500			1	2,000			12	2,000					11	3,000
Hamilton	1	2,500	3	1,300							16	2,000					1	50
Hancock	1	2,500	3	1,300							6	2,000					5	650
Hardin	2	5,500	9	8,200	1	1,000	2	2,100	2	150	10	3,700					23	5,500
Harrison	2	6,800	4	1,500							2	2,000						
Henry	2	4,000	5	3,200	2	540			2	300	8	1,335						
Howard	1	1,200	2	275														
Humboldt	2	3,800	3	750			1	350			10	700					6	1,150
Ida	1	500	6	5,200					1	400	4	4,000					7	1,000
Iowa	3	2,400	2	700							6	6,195					5	600
Jackson	2	8,300	4	2,500	4	1,025	1	1,950			8	2,000					3	1,500
Jasper	12	13,400	4	2,500	4	100	2	1,000			8	710			2	80	7	600
Jefferson	7	5,200	2	750	7	750	1	1,000	2	800	4	2,500					5	675
Johnson	4	2,450	3	5,010	2	500			1	300	3	1,650					3	150
Keokuk	2	4,450	2	1,000							3	2,800					3	2,367
Kossuth	7	14,500	9	2,150			3	4,000			3	2,800					4	2,500
Lee							1	325	3	1,150	13	2,300					1	5
Linn	9	15,750	4	950	8	2,000	1	1,700			3	3,300						
Louis	1	2,000	2	750	1	50			1	275	5	1,275						
Lucas			1	500					1	150	1	500						
Lyon			3	3,000					2	600	1	250						
Madison	3	6,700	3	400	3	125			1	350	3	2,500					2	700
Marion	5	5,200	1	400					1	50	9	2,300					6	1,250
Marshall	1	1,500	1	75	3	85			3	30	4	4,675					3	2,300
Mills	1	2,500	2	550							14	4,725					8	700
Mitchell	3	3,800	2	550					3	550	4	725					11	350
Monona	1	4,000	1	400			1	2,200			5	1,500					4	1,450
Monroe	3	3,000	1	650	1	300					3	1,500					8	1,850
Montgomery	3	8,750	1	1,000	1	550					16	3,025						
Muscatine	2	3,735	3	375			1	400	2	468	1	240					14	1,927
O'Brien	2	4,000	3	835	1	200			2	700	12	1,100					2	30
Osceola	3	4,450	6	2,050					2		1	1,000					1	75
Page	2	5,500									6	2,175					3	25
																	10	350

County	Tractors Estimated		Trucks Estimated		Automobiles Estimated		Snow Plows Estimated		Concrete Mixers Estimated		Heavy Graders Estimated		Patrol Graders Estimated		Planers Estimated		Maintainers Estimated	
	No.	Value	No.	Value	No.	Value	No.	Value	No.	Value	No.	Value	No.	Value	No.	Value	No.	Value
Palo Alto	2	1,300	6	1,300			1	1,000	2	300	13	2,970	19	600			2	110
Plymouth	1	1,300	6	2,600					1	100	9	420	15	600	1	200	19	145
Pocahontas	1	1,500							4	450	3	700	61	1,550			2	80
Polk	4	1,850	1	50	1	50											63	6,300
Pottawattamie	3	5,950	2	1,800			1	450	1		6	605	7	50			2	3,500
Poweshiek	4	6,500	3	775							5	2,175	15	1,150				
Ringgold	1	3,755	3	2,160	2	50			2	25	2	2,400	2	62			3	310
Sac	4	3,700	6	4,000	4	450					5	4,500	4	320			5	500
Scott	5	15,000	1	1,500	4	650					6	850	4	100			43	5,000
Shelby	3	4,500	9	16,075	10	850	2	1,300			4	630	5	320			4	400
Sioux	5	13,100	2	1,400	1	20					15	2,430	3	675			12	1,100
Story	2	1,550	1	1,500							3	1,700	20	1,025				
Tama	2	1,550	7	1,200			4	300	2	150	1	600	3	475			9	850
Taylor	3	5,400									2	2,000	7	625			1	750
Union	3	6,500	5	3,025					2	350	3	1,500	9	450			2	1,500
Van Buren	3	10,200	2	700	1	300			2	200	2	1,500					1	
Wapello	5	6,750	2	1,400					1	30	13	5,000	9	450			2	250
Washington	4	14,000	4	1,800	3	250			1	50	2	1,675	21	1,520			1	100
Wayne	3	3,340	4	3,800	1	25			1	200	3	2,000	13	450			9	1,450
Webster	10	14,150	9	3,800			1	450			8	1,045	10	575			6	340
Winnebago	1	3,785									17	1,750	2	150			5	1,075
Winnesiek	3	3,200							4	300	14	3,650					13	4,300
Woodbury	5	6,000	12	7,350	1	00			1	350	7	1,700					2	2,750
Worth	1	125	7	3,450							2	300	18	800			3	5,000
Wright	4	3,800																
Totals	250	\$428,111	271	\$155,163	89	\$14,145	43	\$34,600	87	\$16,028	565	\$152,370	758	\$71,577	19	\$805	474	\$7,323

SUMMARY TABLE NO. 27—PART II

Inventory of Machinery and Equipment Showing Estimated Value January 1, 1929—Owned by Counties—Annual Report of County Engineers.

County	Power Driven Patrols		Snow Fence	Pile Drivers Estimated		Slip Scrapers Estimated		Drags Estimated		Plows Estimated		Camp Outfit Estimated	Tools and Miscel- laneous Estimated Amount	Total Esti- mated Value
	No.	Amount		No.	Amount	No.	Amount	No.	Amount	No.	Amount			
Adair			\$ 800	2	\$ 375	16	\$ 90		\$ 550	9	\$ 150	\$ 550	\$ 6,048	\$ 23,613
Adams				1	50	26	130	20	50	4	10		2,710	12,825
Allamakee				2	40			35	60				6,000	15,155
Appanoose				1	40	18	90			7	55	468	6,335	21,038
Audubon				1	540	6	30					160	230	8,696
Benton						21	100			4	20		3,397	13,565
Black Hawk	1	\$ 1,500	1,280			4	35						241	11,371
Boone	2	2,550	2,900	1	50			1	300			50	383	10,458
Bremer			1,600	1	40	12	40	18	60				228	11,568
Buchanan	3	6,000	1,500	1	25	12	55	16	35	4	10			12,680
Buena Vista	5	7,100	14,000									240	605	26,420
Butler			1,500	2	200	27	100	22	50	11	100	175	2,037	13,887
Calhoun			2,700										100	7,400
Carroll													225	5,450
Cass			800	1	100	10	40						1,120	4,620
Cedar						18	57	29	138	6	38			8,323
Cerro Gordo	1	1,800	7,000			5	20			2	15		1,770	19,205
Cherokee	1	2,500		2	465	14	90	25	250	4	20		1,695	12,270
Chickasaw			3,560	2	500	20	40					260	3,845	14,480
Clarke				1	75	12	85			4	30	60	1,425	13,250
Clay				1	40	7	9	13	60	1	3		138	2,944
Clayton						10	100						600	14,600
Clinton								121	300					7,100
Crawford			4,000	1	170	10	20	20	100			100	1,670	20,060
Dallas	2	2,800		2	150							75	1,570	15,910
Davis				1	25	13	55	41	370				3,400	14,850
Decatur						40	160	15	250	21	200	30	1,099	9,089
Delaware	2	5,000		1	100	15	75			5	20		400	7,645
Des Moines						6	20	14	80	4	40		4,211	7,206
Dickinson			1,250											3,800
Dubuque	1	1,000		1	200			25	275				2,435	12,710
Emmet			793	1	50								304	4,222
Fayette			3,800	2	460			20	10	6	80	2,021	15,514	46,330

Floyd			1,059	1	250	12	21			15	108	211	992	12,773
Franklin			3,664					6	70	2	10		883	9,277
Fremont						5	12	30	200	7	25	225	167	6,829
Greene				1	100		20		10		30		130	7,745
Grundy	2	2,900	7,181					53	200				360	11,191
Guthrie						3	30					200	3,340	20,070
Hamilton												75	975	10,100
Hancock				1	130	7	10	20	180	4	20		750	10,930
Hardin			4,858	1	60		50					200	2,450	26,438
Harrison										2	20	100	2,013	18,423
Henry	6	3,550		1	300								4,930	16,820
Howard				1	120	12	50			2	22	35	1,495	4,832
Humboldt	1	2,400	7,200					24	25				150	15,365
Ida			270	2	75	5	10	4	15			240	685	11,770
Iowa				1	80	28	160			2	50	120	1,660	17,370
Jackson				2	350	14	75	27	540	5	65	640	2,660	25,105
Jasper			2,400	1	20	11	55	101	150	5	40	90	455	23,700
Jefferson				1	100							50	3,325	12,060
Johnson	4	7,625		1	100	22	75	54	250	4	25	75	4,797	18,247
Jones						15	30	18	72	5	20		500	5,072
Keokuk				1	75	25	100	40	400	8	80		2,800	17,912
Kossuth			10,880										850	37,730
Lee				3	500	35	100	37	100	10	40		7,160	13,730
Linn			2,500	1	500	1	6	1	5	2	11		1,905	33,637
Louis				2	100			40	300	1	80	250	6,775	11,115
Lucas			125	1	75			37	475	5	60		4,758	11,983
Lyon	1	2,000		1	85								480	4,415
Madison				1	100	5	90	60	700	3	70	130	2,061	16,591
Mahaska				1	80	9	125	10	50	3	50	50	2,170	11,850
Marion								50	150			250		4,300
Marshall				1	40	8	24			7	14	100	551	5,579
Mills			550			25	80	9	24	4	25		1,010	11,064
Mitchell						4	20			3	45	40	4,275	14,005
Monona				3	300			15	50			65	610	8,725
Monroe				2	900	15	50						3,630	18,030
Montgomery	3	9,949	1,166	1	48	21	80						5,006	22,706
Muscatine	3	6,000		1	400	4	22	22	60	2	25	101	1,291	13,794
O'Brien	5	6,300	7,000			6	30	15	175	5	40	200	2,199	23,504
Osceola			1,750			5	20	15	100				670	4,440
Page						20	100	6	50	8	135	75	635	12,820
Palo Alto			3,159	1	20								201	4,190
Plymouth				2	150	30	90	29	435	2	10	395	2,365	11,360
Pocahontas				1	100	10	120	1	25	9	65		1,400	7,080
Polk			1,000			3	60			1	10		355	7,175
Pottawattamie				4	250	55	250			1	22	221	287	14,430
Poweshiek			1,915	3	20	12	12			6	15	40	320	14,787
Ringgold				1	110								2,475	7,265
Sac	3	5,996				6	15						3,596	15,659
Scott	2	3,500				6	5		50	1	50		7,340	22,620

SUMMARY TABLE NO. 27—PART II—Continued

County	Power Driven Patrols		Snow Fence	Pile Drivers Estimated		Slip Scrapers Estimated		Drags Estimated		Plows Estimated	Camp Outfit Estimated	Tools and Miscellaneous Estimated Amount	Total Estimated Value	
	No.	Amount		No.	Amount	No.	Amount	No.	Amount					
Shelby				1	700							640	27,990	
Sioux	6	11,000		2	1,100						200	825	38,160	
Story			1,950		50						50	3,230	21,850	
Tama	3	8,450	2,556			46	232	85	680	10	33	270	18,436	
Taylor						15	60	16	75	12	150		12,825	
Union			710	1	100	12	60	2	7	5	42	40	13,522	
Van Buren				1	75			75	1,100	3	350	200	21,570	
Wapello				1	200							60	11,210	
Warren				2	180			70	630	7	106	250	5,662	
Washington				1	45	30	225			6	15	525	31,208	
Wayne				1	40			10	50			85	9,210	
Webster						8	56	14	140	7	84	150	24,270	
Winnebago								25	50			1,865	7,660	
Winnesbick	2	5,000	2,341	1	70			75	75	6	50	200	15,061	
Woodbury	1	750	6,051	4	400	19	106	23	201	4	55	73	32,856	
Worth						7	25	7	50			125	5,532	
Wright				1	50								16,288	
Totals	60	\$106,070	\$117,768	89	\$ 12,243	898	\$ 4,202	1,486	\$ 10,857	286	\$ 2,957	\$ 10,315	\$ 206,920	\$1,431,553

SUMMARY TABLE NO. 28

Showing Road Mileage of Each County and Total Mileage of the State.

County	Primary System	Secondary System		Total Mileage
		County	Township	
Adair	52.50	114.00	906.25	1,072.75
Adams	26.30	116.92	661.40	814.62
Allamakee	83.20	107.50	857.00	1,047.70
Appanoose	57.80	134.75	745.00	937.55
Audubon	42.10	96.90	864.00	1,003.00
Benton	85.90	158.50	1,005.00	1,249.40
Black Hawk	72.60	124.00	788.61	985.21
Boone	78.60	135.35	869.85	1,083.80
Bremer	73.10	67.64	678.00	818.74
Buchanan	46.00	128.00	849.25	1,023.25
Buena Vista	67.60	164.00	898.00	1,129.60
Butler	76.70	150.50	874.13	1,101.33
Calhoun	73.50	126.00	829.00	1,028.50
Carroll	71.10	133.00	880.00	1,084.10
Cass	80.00	105.45	901.75	1,087.20
Cedar	75.40	90.10	863.80	1,029.30
Cerro Gordo	53.10	118.29	906.00	1,077.39
Cherokee	75.20	133.00	871.00	1,079.20
Chickasaw	60.80	98.75	807.00	966.55
Clarke	45.90	104.00	720.00	869.90
Clay	54.30	137.41	870.00	1,061.71
Clayton	106.00	136.50	1,012.50	1,255.00
Clinton	84.50	129.00	944.00	1,157.50
Crawford	88.10	83.00	1,270.00	1,441.10
Dallas	84.70	136.04	806.63	1,028.37
Davis	47.40	140.35	786.25	974.00
Decatur	51.90	128.56	760.00	940.46
Delaware	64.60	143.00	800.00	1,007.60
Des Moines	37.30	49.75	675.00	762.05
Dickinson	42.80	70.60	640.00	753.40
Dubuque	80.80	91.25	813.95	986.00
Emmet	41.40	65.25	598.25	704.90
Fayette	108.60	123.40	1,048.40	1,280.40
Floyd	67.70	101.30	767.75	936.75
Franklin	42.10	161.75	1,000.00	1,203.85
Fremont	57.50	131.00	735.75	924.25
Greene	72.70	91.00	1,016.00	1,179.70
Grundy	57.50	120.46	738.75	916.71
Guthrie	72.40	126.50	905.00	1,103.90
Hamilton	67.10	164.20	810.45	1,041.75
Hancock	57.90	114.40	858.00	1,030.30
Hardin	121.20	121.20	872.15	1,064.55
Harrison	74.50	136.00	1,074.00	1,284.50
Henry	51.90	106.00	667.00	824.90
Howard	50.40	76.68	666.50	793.58
Humboldt	43.00	129.87	554.50	727.37
Ida	49.00	90.35	769.00	908.35
Iowa	68.60	146.00	900.00	1,114.60
Jackson	75.90	83.00	887.00	1,045.90
Jasper	96.50	174.25	1,132.00	1,402.75
Jefferson	47.00	103.00	932.00	1,082.00
Johnson	73.10	121.78	919.75	1,114.63
Jones	64.30	122.00	795.00	961.30
Keokuk	76.50	110.25	919.75	1,106.50
Kossuth	100.70	196.25	1,502.00	1,798.95
Lee	82.60	95.25	645.25	823.10
Linn	97.90	134.00	1,120.20	1,352.10
Louisa	53.30	70.50	543.06	666.86
Lucas	54.70	108.00	646.00	808.70
Lyon	69.20	136.75	888.00	1,093.95
Madison	55.60	131.75	861.00	1,048.35
Mahaska	81.40	89.70	933.00	1,104.10
Marion	92.50	122.31	790.60	1,005.41
Marshall	56.60	165.01	846.00	1,067.61
Mills	48.70	110.50	633.50	792.70
Mitchell	60.70	104.50	656.00	821.20
Monona	88.50	123.60	844.75	1,056.85
Monroe	67.30	122.90	558.25	748.45
Montgomery	47.00	100.00	685.28	832.28
Muscataine	91.20	57.63	592.17	741.00
O'Brien	70.90	113.50	920.00	1,104.40
Osceola	42.80	92.80	645.40	781.00

SUMMARY TABLE NO. 28—Continued

County	Primary System	Secondary System		Total Mileage
		County	Township	
Page.....	68.90	146.80	829.00	1,044.70
Palo Alto.....	46.40	157.00	770.00	973.40
Plymouth.....	116.50	118.49	1,340.50	1,575.49
Pocahontas.....	76.00	150.50	900.50	1,127.00
Polk.....	95.30	249.62	900.00	1,244.92
Pottawattamie.....	116.40	232.00	1,440.50	1,788.90
Poweshiek.....	72.20	169.00	926.00	1,167.20
Ringgold.....	52.20	157.00	892.00	1,101.20
Sac.....	92.70	121.60	930.50	1,144.80
Scott.....	84.60	88.46	595.40	768.46
Shelby.....	45.90	122.70	899.00	1,067.60
Sioux.....	76.50	173.25	1,212.00	1,461.75
Story.....	66.40	146.00	837.00	1,049.40
Tama.....	69.90	175.00	993.40	1,238.30
Taylor.....	49.80	165.00	900.00	1,114.80
Union.....	51.20	107.00	665.25	823.45
Van Buren.....	48.10	105.75	728.16	882.01
Wapello.....	43.10	126.75	664.00	833.85
Warren.....	80.80	113.75	1,004.00	1,198.55
Washington.....	86.30	100.14	877.00	1,063.44
Wayne.....	57.90	163.00	740.00	960.90
Webster.....	89.30	174.25	920.63	1,184.18
Winnebago.....	49.30	89.30	615.00	753.60
Winneshiek.....	94.60	118.30	920.57	1,133.47
Woodbury.....	113.10	122.90	1,232.50	1,468.50
Worth.....	60.00	57.00	593.86	710.86
Wright.....	63.70	159.50	802.00	1,025.20
Totals.....	6,761.10	12,277.06	84,245.70	103,283.86

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State of Iowa 1928

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FOR THE

Period Ending June 30, 1928

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Published by
THE STATE OF IOWA
Des Moines